

State of California  
The Resources Agency  
DEPARTMENT OF FISH AND GAME  
Wildlife and Habitat Data Analysis Branch  
California Natural Diversity Database

**SPECIAL ANIMALS (672 taxa)**  
January 2004

The California Natural Diversity Database (CNDDB) is a continually refined and updated, computerized inventory of location information on the most rare animals, plants, and natural communities in California. The blueprint used to set up the CNDDB was developed by The Nature Conservancy (TNC) in the early 1970's. TNC has helped to set up similar programs in all 50 states and a number of foreign countries. Collectively these programs are known as the Natural Heritage Network. The "Heritage Methodology" used by all of these programs sets the standards on the information we gather and the procedures we use. In 1999 TNC and the Natural Heritage Network jointly established an independent organization, the Association for Biodiversity Information (ABI), to achieve their mutual goal of using the wealth of biodiversity information in the Heritage Network to support conservation efforts. In November 2001 ABI changed its name to NatureServe. More information the Natural Heritage Network is available on the NatureServe web site:  
<http://www.natureserve.org>.

"Special Animals" is a general term that refers to all of the taxa the CNDDB is interested in tracking, regardless of their legal or protection status. These taxa generally fall into one or more of the following categories:

- Officially listed or proposed for listing under the State and/or Federal Endangered Species Acts.
- State or Federal candidate for possible listing.
- Taxa which meet the criteria for listing, even if not currently included on any list, as described in Section 15380 of the California Environmental Quality Act Guidelines. (More information on CEQA is available at  
[http://ceres.ca.gov/topic/env\\_law/ceqa/guidelines/](http://ceres.ca.gov/topic/env_law/ceqa/guidelines/))
- Taxa considered by the Department to be a Species of Special Concern (CSC)
- Taxa that are biologically rare, very restricted in distribution, declining throughout their range, or have a critical, vulnerable stage in their life cycle that warrants monitoring.
- Populations in California that may be on the periphery of a taxon's range, but are threatened with extirpation in California.
- Taxa closely associated with a habitat that is declining in California at an alarming rate (e.g., wetlands, riparian, old growth forests, desert aquatic systems, native grasslands, vernal pools, etc.)
- Taxa designated as a special status, sensitive, or declining species by other state or federal agencies, or non-governmental organization (NGO).

Taxa marked with a “+” to the left of the scientific name are those for which there is location information in the CNDDDB Geographic Information System (GIS), as of the date of this list.

Additional information on the CNDDDB is available on the Department of Fish and Game web site at <http://www.dfg.ca.gov/html/database.html>.

Additional information on other Department programs is available on the DFG web site: <http://www.dfg.ca.gov>. The Habitat Conservation Planning Branch page: <http://www.dfg.ca.gov/hcpb/species/species.shtml> is a particularly rich source of information including such topics as “Survey Standards and Guidelines”, “Threats to Wildlife”, “Habitats”, and “Plant and Animal Pictures”.

### **Element Occurrence (EO) Definition:**

The EO definition refers to the types of information we map. For most animal taxa, the CNDDDB is interested in sightings that indicate the presence of a **resident population**. For many birds, however, the CNDDDB tracks only nesting locations, (those species are so indicated on the list). It is not necessary to actually locate the nest to confirm breeding status. Any indication of breeding (territorial males, adults carrying nest material, adults carrying food, the presence of newly fledged young, etc.) is acceptable evidence of nesting. For other taxa where we track only a certain part of their range or life history, the area or life stage is indicated on the list.

### **Mapping Conventions:**

Our information is mapped as precisely as we can, based on the source materials submitted. Generally, observations/collections within ¼ mile, within continuous habitat, are combined into a single element occurrence (EO).

### **Taxonomic References and Sources of Additional Information:**

We follow the most current published taxonomy. There are a number of taxonomic changes in amphibians and reptiles sections of this list. Most of these changes are explained and referenced on the Center for North American Herpetology web site: <http://www.cnah.org>. In addition, we made taxonomic changes based on the following papers:

Feldman, C. R. & J. F. Parham. 2002. Molecular Phylogenetics of Emydine Turtles: Taxonomic Revision and the Evolution of Shell Kinesis. *Molecular Phylogenetics and Evolution* 22(3): 388-398.

Reeder, T., C. J Cole & H. C. Dessauer. 2002. Phylogenetic Relationships of Whiptail Lizards of the Genus *Cnemidophorus* (Squamata: Teiidae): A Test of Monophyly, Reevaluation of Karyotypic Evolution, and Review of Hybrid Origins. *American Museum Novitates* No. 3365. 61pp.

## **CNDDB RANKS:**

The CNDDB ranking codes are part of the “Heritage Methodology”. It is a shorthand formula that provides information on how rare a taxon is, both throughout its entire range and within California. We use the best information available to assign these ranks and they are changed as new information becomes available. More detailed information on our ranks and be found in Appendix 1.

**CALIFORNIA ENDANGERED SPECIES ACT (CESA) LISTING CODES:** The listing status of each species is current as of the date of this list. The most current changes in listing status will be found in the list of “Endangered and Threatened Animals of California”, which the CNDDB updates and issues quarterly (January, April, July, & October).

SE State-listed as Endangered  
ST State-listed as Threatened  
SCE State candidate for listing as Endangered  
SCT State candidate for listing as Threatened

**ENDANGERED SPECIES ACT (ESA) LISTING CODES:** The listing status is current as of the date of this list. The most current changes in listing status will be found in the list of “Endangered and Threatened Animals of California”, which the CNDDB updates and issues quarterly (January, April, July, & October). Federal listing actions are also available at:

<http://www.epa.gov/fedrgstr/EPA-SPECIES/index.html>

FE Federally listed as Endangered  
FT Federally listed as Threatened  
FPE Federally proposed for listing as Endangered  
FPT Federally proposed for listing as Threatened  
FPD Federally proposed for delisting  
FC Federal candidate species (former Category 1 candidates)  
(FSC) Federal Species of Concern (More information on this category is available at  
[http://sacramento.fws.gov/es/spp\\_concern.htm](http://sacramento.fws.gov/es/spp_concern.htm) )

## **IUCN CODES:**

The World Conservation Union (formerly the International Union for the Conservation of Nature) was created in 1948. It is the world’s largest conservation-related organization with over 900 governmental and non-governmental members from 181 countries. The IUCN is a storehouse of information and expertise, and as such, it advises and assists governments, organizations and local communities in developing and implementing conservation strategies. The Species Survival Commission, one of six global commissions within IUCN, has been publishing the “Red List of Threatened Species” for over 40 years. The Red List contains a roster of species that have been assessed against strict criteria designed to determine their relative risk of extinction. The main purpose of the IUCN Red List is to catalogue and highlight those taxa that are facing a higher risk of global extinction. Detailed information on the IUCN and the Red List is available at: <http://www.redlist.org/>.

## **OTHER CODES:**

**AFS:** American Fisheries Society categories of risk for marine, estuarine & diadromous fish stocks. These categories are taken from the paper: Musick, J.T. et al. 2000. "Marine, Estuarine, and Diadromous Fish Stocks at Risk of Extinction in North America (Exclusive of Pacific Salmonids). *Fisheries* 25(11):6-30. Species are categorized as vulnerable, threatened, or endangered, to global extinction. The Status of these organisms was determined by applying risk criteria developed from peer-reviewed knowledge and expert scientific opinion. These criteria are 1) rarity, 2) small range and endemics, 3) specialized habitat requirements, and 4) population resilience to decline. Most stocks face more than one risk factor. Life history limitations and habitat degradation are the two most important risk factors. This paper and additional information on the AFS is available at:

<http://www.fisheries.org>

**Audubon: WatchList:** WatchList species are those facing population declines and/or threats such as habitat loss on their breeding and wintering grounds, or with limited geographic ranges. The WatchList is a science-based system that focuses attention on at-risk bird species so that limited resources are spent where they are most needed. More information is available at: <http://www.audubon.org/bird/watchlist/index.html>.

**BLM: Sensitive:** Bureau of Land Management. BLM Manual §6840 defines sensitive species as "...those species that are (1) under status review by the FWS/NMFS; or (2) whose numbers are declining so rapidly that Federal listing may become necessary, or (3) with typically small and widely dispersed populations; or (4) those inhabiting ecological refugia or other specialized or unique habitats." Existing California-BLM policy concerning the designation of sensitive species identifies two conditions that must be met before a species may be considered as BLM sensitive: (1) a significant population of the species must occur on BLM-administered lands, and (2) the potential must exist for improvement of the species' condition through BLM management. The "Sensitive Species" designation is not meant to include federally listed species, proposed species, candidate species or State-listed species. It is BLM policy to provide sensitive species with the same level of protection that is given federal candidate species. The list is available at [http://www.or.blm.gov/Resources/Special-Status\\_species/CAIB99-86.htm](http://www.or.blm.gov/Resources/Special-Status_species/CAIB99-86.htm).

**CDF: Sensitive:** California Department of Forestry and Fire Protection. The Board of Forestry classifies as "sensitive species" those species that warrant special protection during timber operations. The list of "sensitive species" is given in §895.1 (Definitions) of the California Forest Practice Rules. The 2002 Forest Practice Rules are available at: <http://www.fire.ca.gov/ResourceManagement/pdf/FPA200301.pdf>

**DFG: CSC:** California Special Concern species. It is the goal and responsibility of the Department of Fish and Game to maintain viable populations of all native species. To this end, the Department has designated certain vertebrate species as "Species of Special Concern" because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction. The goal of designating species as "Species of

Special Concern" is to halt or reverse their decline by calling attention to their plight and addressing the issues of concern early enough to secure their long term viability. Not all "Species of Special Concern" have declined equally; some species may be just starting to decline, while others may have already reached the point where they meet the criteria for listing as a "Threatened" or "Endangered" species under the State and/or Federal Endangered Species Acts. More information is available on the Department's web site at: <http://www.dfg.ca.gov/hcpb/species/ssc/ssc.shtml>. All of the Species of Special Concern reports are now available on-line:

Birds: [http://www.dfg.ca.gov/hcpb/info/bird\\_ssc.shtml](http://www.dfg.ca.gov/hcpb/info/bird_ssc.shtml).

Mammals: [http://www.dfg.ca.gov/hcpb/info/mammal\\_ssc.shtml](http://www.dfg.ca.gov/hcpb/info/mammal_ssc.shtml).

Fish: [http://www.dfg.ca.gov/hcpb/info/fish\\_ssc.pdf](http://www.dfg.ca.gov/hcpb/info/fish_ssc.pdf).

Amphibians & Reptiles: [http://www.dfg.ca.gov/hcpb/info/herp\\_ssc.pdf](http://www.dfg.ca.gov/hcpb/info/herp_ssc.pdf).

**DFG: Fully Protected:** Fully Protected species may not be taken or possessed without a permit from the Fish and Game Commission. Information of Fully Protected species can be found in the Fish and Game Code, (birds at §3511, mammals at §4700, reptiles and amphibians at §5050, and fish at §5515). Additional information on Fully Protected fish can be found in the California Code of Regulations, Title 14, Division 1, Subdivision 1, Chapter 2, Article 4, §5.93. The category of Protected Amphibians and Reptiles in Title 14 has been repealed. The Fish and Game Code is available online at:

<http://www.leginfo.ca.gov/cgi-bin/calawquery?codesection=fqc>. Title 14 of the California Code of Regulations is available at: <http://ccr.oal.ca.gov>.

**FS: Sensitive:** USDA Forest Service defines sensitive species as those plant and animal species identified by a regional forester for which population viability is a concern, as evidenced by significant current or predicted downward trends in population numbers or density, or significant current or predicted downward trends in habitat capability that would reduce a species' existing distribution. Regional Foresters shall identify sensitive species occurring within the region. More information is available at:

<http://www.fs.fed.us/r5/projects/sensitive-species/> and

<http://www.fs.fed.us/r2/nebraska/gpng/sensitive.html>.

**FWS: BCC:** Fish and Wildlife Service: Birds of Conservation Concern: The goal of the *Birds of Conservation Concern 2002* report is to accurately identify the migratory and non-migratory bird species (beyond those already designated as Federally threatened or endangered) that represent our highest conservation priorities and draw attention to species in need of conservation action. We hope, that by focusing attention on these highest priority species, this report will promote greater study and protection of the habitats and ecological communities upon which these species depend, thereby ensuring the future of healthy avian populations and communities. This report is available at:

<http://migratorybirds.fws.gov/reports/bcc2002.pdf>.

**USBC Watch List:** The United States Bird Conservation Watch List. Includes the Partners in Flight (PIF) Watch List, the United States Shorebird Conservation Plan Watch List, and the Waterbird Conservation for the Americas Watch List. This combined watch list is available through the American Bird Conservancy at:

<http://www.abcbirds.org/watchlist/index.htm>. Information on Partners in Flight is available at: <http://www.partnersinflight.org/>. Information on the United States Shorebird Conservation Plan is available at: <http://shorebirdplan.fws.gov/> . Information on the North American Waterbird Conservation Plan is available at: <http://www.pwrc.usgs.gov/nacwcp/testarea/nacwcp/pubs/continentalplan.cfm> .

**WBWG: High Priority:** The Western Bat Working Group is comprised of agencies, organizations and individuals interested in bat research, management and conservation from the 13 western states and provinces. The goals are (1) to facilitate communication among interested parties and reduce risks of species decline or extinction; (2) to provide a mechanism by which current information on bat ecology, distribution and research techniques can be readily accessed; and (3) to develop a forum to discuss conservation strategies, provide technical assistance and encourage education programs. Species designated as “High Priority” are imperiled or are at high risk of imperilment based on available information on distribution, status, ecology and known threats. More information is available at: <http://www.batworkinggroups.org/SpMatrix.html>.

**INVERTEBRATES (244 taxa)****PELECYPODA** (clams and mussels)

+ <i>Anodonta californiensis</i> California floater (mussel)	G3S2?	FS: Sensitive
<i>Pisidium ultramontanum</i> Fingernail clam	G1S1	FS: Sensitive

**GASTROPODA** (Snails and slugs)

<i>Algamorda newcomiana</i> Newcomb's littorine snail	G1G2S1S2		
+ <i>Ammonitella Yatesi</i> Tight coin (=Yates' snail)	G1S1	VU/D2	
+ <i>Assiminea infima</i> Badwater snail	G1S1	VU/B1+2c	
+ <i>Binneya notabilis</i> Santa Barbara shelled slug (=slug snail)	G1S1	DD	
+ <i>Eremarionta</i> (= <i>Micrarionta</i> ) <i>immaculata</i> White desertsnail	G1S1	VU/D2	
<i>Eremarionta</i> (= <i>Micrarionta</i> ) <i>millepalmarum</i> Thousand Palms desertsnail	G?S?	VU/D2	
+ <i>Eremarionta</i> (= <i>Micrarionta</i> ) <i>morongoana</i> Morongo (=Colorado) Desertsnail	G1G3S1	LRnt	
+ <i>Eremarionta</i> (= <i>Micrarionta</i> ) <i>rowelli bakerensis</i> Baker desertsnail	G1T1S1	DD	
+ <i>Eremarionta</i> (= <i>Micrarionta</i> ) <i>rowelli mccoiana</i> California McCoy snail (=McCoy desertsnail)	G1T1S1	DD	
+ <i>Fontelicella</i> sp. Deep Springs Fontelicella	G1S1		
+ <i>Haliotis cracherodii</i> Black abalone	G3G4S3	CR/A4e	
<i>Haliotis sorenseni</i> White abalone	G1S1	FE	
+ <i>Haplotrema catalinense</i> Santa Catalina lancetooth	G1S1		
+ <i>Haplotrema duranti</i> Durant's snail	G2G3S2S3		
<i>Helisoma newberryi</i> Great Basin rams-horn	G1?S1		FS: Sensitive
+ <i>Helminthoglypta allynsmithi</i> Merced Canyon shoulderband (snail)	G1S1	(FSC)	VU/D2
+ <i>Helminthoglypta arrosa pomoensis</i> Pomo bronze shoulderband (snail)	G2T1S1	(FSC)	DD
+ <i>Helminthoglypta arrosa williamsi</i> Williams' bronze shoulderband (snail)	G2T1S1	(FSC)	
+ <i>Helminthoglypta ayresiana sanctaecrucis</i> Ayer's snail	G1G2T1T2S1S2		
+ <i>Helminthoglypta callistoderma</i> Kern shoulderband (snail)	G1S1	(FSC)	EN/B1+2c
<i>Helminthoglypta coelata</i> Mesa shoulderband	G?S?		VU/B1+2c

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	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Helminthoglypta mohaveana</i> Victorville shoulderband (snail)	G1S1			LRnt	
+ <i>Helminthoglypta nickliniana awania</i> Nicklin's Peninsula Coast Range shoulderband (snail)	G1T1S1		(FSC)	DD	
+ <i>Helminthoglypta nickliniana bridgesi</i> Bridges' Coast Range shoulderband (snail)	G2T1S1		(FSC)	DD	
+ <i>Helminthoglypta sequoicola consors</i> Redwood shoulderband (snail)	G1G2T1S1			DD	
+ <i>Helminthoglypta traski coelata</i> Peninsular Range shoulderband (snail)	G1G2T1S1				
+ <i>Helminthoglypta walkeriana</i> Morro shoulderband (snail)	G1S1		FE	CR/A1ce, B1+2bc	
<i>Juga acutiflosa</i> Topaz juga	G2S2				FS: Sensitive
<i>Juga occata</i> Scalloped juga	G1S1				FS: Sensitive
+ <i>Micrarionta facta</i> Santa Barbara islandsnail	G1G2S1S2			VU/D2	
+ <i>Micrarionta feralis</i> San Nicolas islandsnail	G1S1			CR/B1+2d	
+ <i>Micrarionta gabbi</i> San Clemente islandsnail	G1S1			VU/D2	
+ <i>Micrarionta opuntia</i> Pricklypear islandsnail	G1S1			VU/D2	
+ <i>Monadenia circumcarinata</i> Keeled sideband (snail)	G1S1		(FSC)	VU/D2	BLM: Sensitive
+ <i>Monadenia fidelis pronotis</i> Rocky coast Pacific sideband (= Rocky coast sideband)	G4G5T1S1			DD	
+ <i>Monadenia yosemitensis</i> Yosemite mariposa sideband (snail)	G1S1		(FSC)		
+ <i>Monadenia mormonum buttoni</i> Button's Sierra sideband (snail)	G1G2T1S1		(FSC)	DD	
+ <i>Monadenia mormonum hirsuta</i> Hirsute Sierra sideband (snail)	G1G2T1S1		(FSC)	DD	BLM: Sensitive
+ <i>Monadenia setosa</i> Trinity bristle snail	G2S2	ST	(FSC)	VU/D2	
+ <i>Monadenia troglodytes</i> Shasta sideband (snail)	G1G2S1S2		(FSC)	DD	
+ <i>Monadenia tuolumneana</i> Tuolumne sideband (snail)	G1S1				
+ <i>Pristiloma shepardae</i> Shepard's snail	G1S1				
+ <i>Pyrgulopsis aardahli</i> Benton Valley (=Aahrdahl's) springsnail	G1S1				
+ <i>Pyrgulopsis owensensis</i> Owens Valley springsnail	G1G2S1S2				FS: Sensitive
+ <i>Pyrgulopsis perturbata</i> Fish Slough springsnail	G1G2S1S2				
+ <i>Pyrgulopsis wongi</i> Wong's springsnail	G1G2S1S2				FS: Sensitive
+ <i>Radiocentrum (=Oreohelix) avalonense</i> Catalina mountainsnail	G1S1			CR/B1+2c	
+ <i>Sterkia clementina</i> San Clemente Island blunt-top snail	G1S1			LRnt	

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	<u>CNDBD RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Tryonia imitator</i> Mimic Tryonia (California brackishwater snail)	G2G3S2S3			DD	
<i>Tryonia margae</i> Grapevine Springs elongate tryonia	G1S1				
<i>Tryonia robusta</i> Robust tryonia	G1G2S1S2				
<i>Tryonia rowlandsi</i> Grapevine Springs squat tryonia	G1S1				
+ <i>Vespericola karokorum</i> Karok Hesperian (=Karok Indian snail)	G2G3S2S3	(FSC)		DD	
+ <i>Xerarionta intercisa</i> Horseshoe snail (=Plain cactussnail)	G1S1			VU/D2	
+ <i>Xerarionta redimita</i> Wreathed cactussnail	G1S1			VU/D2	
<i>Xerarionta tryoni</i> Bicolor cactussnail	G1S1			VU/D2	
<b>ARACHNIDA (Spiders and relatives)</b>					
<i>Aphrastochthonius grubbsi</i> Grubbs' Cave pseudoscorpion	G1G2S1S2				
<i>Archeolarca aalbuui</i> <i>Aalbu's Cave pseudoscorpion</i>	G1G2S1S2				
+ <i>Banksula melones</i> Melones Cave harvestman	G2G3S2			VU/A2c	
<i>Calicina diminua</i> Marin blind harvestman	G?S?	(FSC)			
+ <i>Calicina (=Sitalcina) minor</i> Edgewood blind harvestman	G1S1	(FSC)			
+ <i>Fissilcreagris (=Microcreagris) imperialis</i> Empire Cave pseudoscorpion	G1S1			VU/D2	
<i>Larca laceyi</i> Lacey's Cave pseudoscorpion	G1G2S1S2				
+ <i>Meta dolloff</i> Dolloff Cave spider	G1S1			VU/D2	
<i>Microcina edgewoodensis</i> Edgewood Park micro-blind harvestman	G?S?	(FSC)			
<i>Microcina homi</i> Hom's micro-blind harvestman	G?S?	(FSC)			
<i>Microcina jungi</i> Jung's micro-blind harvestman	G?S?	(FSC)			
<i>Microcina leei</i> Lee's micro-blind harvestman	G?S?				
<i>Microcina lumi</i> Fairmont (=Lum's) micro-blind harvestman	G?S?	(FSC)			
+ <i>Microcina tiburona</i> Tiburon micro-blind harvestman	G1S1	(FSC)			
<i>Pseudogarypus orpheus</i> Music Hall Cave pseudoscorpion	G1G2S1S2				
<i>Telema</i> sp. Santa Cruz telemid spider	G1S1				
+ <i>Trithyreus shoshonensis</i> Shoshone Cave ship-scorpion	G1S1				BLM: Sensitive

	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<b>CRUSTACEA, Order Anostraca (fairy shrimp)</b>					
+ <i>Artemia monica</i> Mono brine shrimp	G1S1			LRcd	
+ <i>Branchinecta conservatio</i> Conservancy fairy shrimp	G1S1	FE		EN/A2c	
+ <i>Branchinecta longiantenna</i> Longhorn fairy shrimp	G1S1	FE		EN/A2c	
+ <i>Branchinecta lynchi</i> Vernal pool fairy shrimp	G2G3S2S3	FT		VU/A2c	
+ <i>Branchinecta mesovallensis</i> Midvalley fairy shrimp	G2S2	(FSC)			
+ <i>Branchinecta sandiegonensis</i> San Diego fairy shrimp	G1S1	FE		EN/A2c	
+ <i>Lepidurus packardi</i> Vernal pool tadpole shrimp	G2G3S2S3	FE		VU/A2c	
+ <i>Linderiella occidentalis</i> California linderiella	G2G3S2S3	(FSC)		LRnt	
<i>Linderiella santarosae</i> Santa Rosa Plateau fairy shrimp	G1G2S1S2				
+ <i>Streptocephalus woottoni</i> Riverside fairy shrimp	G1S1	FE		EN/A2c	
<b>CRUSTACEA, Order Isopoda (isopods)</b>					
+ <i>Caecidotea tomalensis</i> Tomales isopod	G2S2				
<b>CRUSTACEA, Order Amphipoda (amphipods)</b>					
+ <i>Stygobromus gradyi</i> Grady's Cave amphipod	G1S1			VU/D2	
+ <i>Stygobromus harai</i> Hara's Cave amphipod	G1G2S1S2			VU/D2	
+ <i>Stygobromus mackenziei</i> MacKenzie's Cave amphipod	G1G2S1S2			VU/D2	
+ <i>Stygobromus wengerorum</i> Wengerors' Cave amphipod	G1G2S1S2			VU/D2	
<b>CRSTACEA, Order Decapoda (crayfish &amp; shrimp)</b>					
+ <i>Pacifastacus fortis</i> Shasta crayfish	G1S1	SE	FE	CR/B1+2c	
+ <i>Syncaris pacifica</i> California freshwater shrimp	G1S1	SE	FE	EN/A1ce	
<b>INSECTA, Order Plecoptera (stoneflies)</b>					
+ <i>Capnia lacustra</i> Lake Tahoe benthic stonefly	G1S1		(FSC)		
<i>Megaleuctra sierra</i> Shirttail Creek stonefly	G2QS?		(FSC)		

	<u>CNDBB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
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**INSECTA, Order Orthoptera** (grasshoppers, katydids, and crickets)

+ <i>Ammopelmatus kelsoensis</i> Kelso Jerusalem cricket	G1G3S1S2			VU/B1+2bd
<i>Ammopelmatus muwu</i> Point Conception Jerusalem cricket	G1G3S1S3			VU/B1+2bd
<i>Idiostatus kathleenae</i> Pinnacles shieldback katydid	G2G3S1S3			
+ <i>Idiostatus middlekaufi</i> Middlekauf's shieldback katydid	G1G2S1	(FSC)		CR/B1+2bd
+ <i>Macrobaenetes kelsoensis</i> Kelso giant sand treader cricket	G1S1			VU/B1+2bd
+ <i>Macrobaenetes valgum</i> Coachella giant sand treader cricket	G1G2S1S2			VU/B1+2bd
+ <i>Neduba longipennis</i> Santa Monica shieldback katydid	G1G2S1S2			CR/B1+2bd
<i>Pristoceuthophilus</i> sp Samwell Cave cricket	G1G3S1S3			VU/D1+2
+ <i>Psychomastix deserticola</i> Desert monkey grasshopper	G1G3S1S2			VU/B1+2bd
+ <i>Stenopelmatus cahuilaensis</i> Coachella Valley Jerusalem cricket	G1G2S1S2			VU/B1+2bd
+ <i>Tetrix sierrana</i> Sierra pygmy grasshopper	G1G2S1S2	(FSC)		VU/D2
+ <i>Trimerotropis infantilis</i> Zayante band-winged grasshopper	G1S1	FE		EN/A1c
<i>Trimerotropis occidentaloide</i> Santa Monica Mountains Grasshopper	G1G2S1S2			EN/A1c
<i>Trimerotropis occulens</i> Lompoc Grasshopper	G1G2S1S2			EN/A1c

**INSECTA, Order Hemiptera** (true bugs)

+ <i>Belostoma saratogae</i> Saratoga Springs belostoman bug	G1S1		
+ <i>Oravelia pege</i> Dry Creek cliff strider bug	G1S1	(FSC)	
+ <i>Pelocoris shosone</i> Amargosa naucorid bug	G1G3S1S2		
+ <i>Saldula usingeri</i> Wilber Springs shorebug	G1S1		

**INSECTA, Order Neuroptera** (lacewings)

<i>Nothochrysa californica</i> San Francisco lacewing	G?S?	(FSC)	
+ <i>Oliarces clara</i> Cheeseweed moth lacewing	G1G3S1S3		

**INSECTA, Order Coleoptera** (beetles)

+ <i>Aegialia concinna</i> Cervo aegalian scarab beetle	G1S1	(FSC)	VU/D2	BLM: Sensitive
+ <i>Agabus rumppi</i> Death Valley agabus diving beetle	G1G3S1			

	<u>CNDBB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Anomala carlsoni</i> Carlson's dune beetle	G2S2				
+ <i>Anomala hardyorum</i> Hardy's dune beetle	G2S2				
+ <i>Anthicus sacramento</i> Sacramento anthicid beetle	G1S1		(FSC)	EN/B1+2c	
<i>Atractelmis wawona</i> Wawona riffle beetle	G1G3S1S3		(FSC)		
+ <i>Chaetarthria leechi</i> Leech's chaetarthrian water scavenger beetle	G1?S1?				
<i>Cicindela gabbi</i> Gabb's tiger beetle	G4S1				
<i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	G5T4S?		(FSC)		
+ <i>Cicindela hirticollis gravida</i> Sandy beach tiger beetle	G5T4S1		(FSC)		
<i>Cicindela latesignata latesignata</i> Tiger beetle	G4T1T2S1				
+ <i>Cicindela ohlone</i> Ohlone tiger beetle	G1S1		FE		
<i>Cicindela senilis frosti</i> Tiger beetle	G4T1S1				
<i>Cicindela tranquebarica viridissima</i> Greenest tiger beetle	G5T1S1				
+ <i>Coelus globosus</i> Globose dune beetle	G1S1		(FSC)	VU/A1c	
+ <i>Coelus gracilis</i> San Joaquin dune beetle	G1S1		(FSC)	VU/A1c,D2	BLM: Sensitive
<i>Coenonycha clementia</i> San Clemente Island coenonycha beetle	G1?S1?				
+ <i>Desmocerus californicus dimorphus</i> Valley elderberry longhorn beetle	G3T2S2		FT		
<i>Dubiraphia brunnescens</i> Brownish dubiraphian riffle beetle	G1G3S1S3		(FSC)		
<i>Dubiraphia giulianii</i> Giuliani's dubiraphian riffle beetle	G1G3S1S3				
+ <i>Elaphrus viridis</i> Delta green ground beetle	G1S1		FT	CR/B1+2ab c+3a	
<i>Glaresis arenata</i> Kelso Dune glaresis scarab beetle	G1G3S1S3				
+ <i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	G1G2S1S2		(FSC)		
<i>Hydroporus hirsutus</i> Woolly hydroporus diving beetle	G1G3S1S3		(FSC)		
<i>Hydroporus leechi</i> Leech's skyline diving beetle	G1?S1?		(FSC)		
+ <i>Hydroporus simplex</i> Simple hydroporus diving beetle	G1?S1?		(FSC)		
+ <i>Hygrotus curvipes</i> Curved-foot hygrotus diving beetle	G1S1		(FSC)		
+ <i>Hygrotus fontinalis</i> Travertine band-thigh diving beetle	G1S1				
+ <i>Lichnanthe albipilosa</i> White sand bear scarab beetle	G1S1				

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+ <i>Lichnanthe ursina</i> Bumblebee scarab beetle	G2S2		(FSC)		
+ <i>Lytta hoppingi</i> Hopping's blister beetle	G1G2S1S2		(FSC)		
<i>Lytta insperata</i> Mojave Desert blister beetle	G1G2S1S2				
+ <i>Lytta moesta</i> Moestan blister beetle	G2S2		(FSC)		
+ <i>Lytta molesta</i> Molestan blister beetle	G2S2		(FSC)		
+ <i>Lytta morrisoni</i> Morrison's blister beetle	G1G2S1S2		(FSC)		
<i>Miloderes nelsoni</i> Nelson's miloderes weevil	G1G3S1S3				
<i>Nebria darlingtoni</i> South Forks ground beetle	G?S?		(FSC)		
<i>Nebria gebleri siskiyouensis</i> Siskiyou ground beetle	G4G5T4S?		(FSC)		
<i>Nebria sahlbergii triad</i> Trinity Alps ground beetle	G?T?S?		(FSC)		
<i>Necydalis rudei</i> Rude's longhorn beetle	G1G3S1S3				
<i>Ochthebius crassalus</i> Wing-shoulder minute moss beetle	G1G3S1S3				
+ <i>Ochthebius reticulatus</i> Wilbur Springs minute moss beetle	G1S1		(FSC)		
+ <i>Onychobaris langei</i> Lange's El Segundo dune weevil	G1S1				
+ <i>Optioservus canus</i> Pinnacles optioservus riffle beetle	G1S1				
<i>Paleoxenus dohrni</i> Dohrn's elegant eucnemid beetle	GHSH				
+ <i>Polyphylla anteronivea</i> Saline Valley snow-front June beetle	G1S1				
+ <i>Polyphylla barbata</i> Mount Hermon (=barbate) June beetle	G1S1		FE		
+ <i>Polyphylla erratica</i> Death Valley June beetle	G1S1				
+ <i>Polyphylla nubila</i> Atascadero June beetle	G1S1				
+ <i>Pseudocotalpa andrewsi</i> Andrew's dune scarab (beetle)	G2G3S2S3				
<i>Scaphinotus behrensi</i> (Ground beetle, no common name)	G?S?		(FSC)		
<i>Trigonoscuta brunnotasselata</i> Brown-tassel trigonoscuta weevil	G1G2S1S2				
+ <i>Trigonoscuta dorothaea dorothaea</i> Dorothy's El Segundo dune weevil	G1T1S1				
<i>Trigonoscuta stantoni</i> Santa Cruz Island shore weevil	G1?S1?				
<i>Trigonoscuta doyenii</i> Doyen's trigonoscuta dune weevil	G1S1		(FSC)		

	<u>CNDBB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
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**INSECTA, Order Mecoptera (scorpionflies)**

<i>Orbittacus obscurus</i> Gold rush hanging fly	G1S1	(FSC)
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**INSECTA, Order Diptera (flies)**

<i>+Brennania belkini</i> Belkin's dune tabanid fly	G1G2S1S2	VU/A2ce
<i>+Efferia antiochi</i> Antioch efferian robberfly	G1G3S1S3	(FSC)
<i>Metapogon hurdi</i> Hurd's metapogon robberfly	G1G3S1S3	(FSC)
<i>+Paracoenia calida</i> Wilbur Springs shore fly	G1S1	(FSC)
<i>+Rhaphiomidas terminatus abdominalis</i> Delhi Sands flower-loving fly	G1T1S1	FE

**INSECTA, Order Lepidoptera (butterflies & moths)**

<i>+Adela oplerella</i> Opler's longhorn moth	G2G3S2S3	(FSC)
<i>+Apodemia mormo langei</i> Lange's metalmark butterfly	G5T1S1	FE
<i>Carolella busckana</i> Busck's gall moth	G1G3S1S3	
<i>+Carterocephalus palaemon magnus</i> Sonoma arctic skipper	G5T1S1	(FSC)
<i>Cercyonis pegala carsonensis</i> Carson Valley wood nymph butterfly	G5T2S1S2	
<i>Coenonympha tullia yontockett</i> Yontocket satyr butterfly	G5T1T2S1S2	
<i>+Danaus plexippus</i> (wintering sites) Monarch butterfly	G4S3	
<i>+Euchloe hyantis andrewsi</i> Andrew's marble butterfly	G3G4T1S1	
<i>+Eucosma hennei</i> Henne's eucosman moth	G1S1	
<i>+Euphilotes battoides allyni</i> El Segundo blue butterfly	G5T1S1	FE
<i>Euphilotes battooides comstocki</i> Comstock's blue butterfly	G5T1T3S1S3	
<i>+Euphilotes enoptes smithi</i> Smith's blue butterfly	G5T1T2S1S2	FE
<i>+Euphydryas editha bayensis</i> Bay checkerspot butterfly	G5T1S1	FT
<i>Euphydryas editha monoensis</i> Mono checkerspot butterfly	G5T3?S1S3	
<i>+Euphydryas editha quino</i> Quino checkerspot butterfly	G5T1S1	FE
<i>Euphyes vestris barbisoni</i> Dun skipper	G5T1S1	
<i>+Euproserpinus euterpe</i> Kern primrose sphinx moth	G1S1	FT

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+ <i>Glauopsyche lygdamus paloverdesensis</i> Palos Verdes blue butterfly	G5T1S1		FE		
+ <i>Hesperia mirimae longaevicola</i> White Mountains skipper	G2G3T1S1				
<i>Hesperopsis graciela</i> MacNeill sooty wing skipper	G2G3S1S3				
+ <i>Icaricia icarioides albihalos</i> White Mountains icarioides blue butterfly	G5T2?S2?				
+ <i>Icaricia icarioides missionensis</i> Mission blue butterfly	G5T1S1		FE		
<i>Icaricia icarioides moroensis</i> Morro Bay blue butterfly	G5T1T3S1S3				
+ <i>Icaricia icarioides parapheres</i> Point Reyes blue butterfly	G5T1S1		(FSC)		
+ <i>Incisalia mossii bayensis</i> San Bruno elfin butterfly	G3G4T1S1		FE		
+ <i>Incisalia mossii hidakupa</i> San Gabriel Mountains elfin butterfly	G3G4T1T2S1S2				
<i>Incisalia mossii marinensis</i> Marin Elfin butterfly	G3G4T1S1		(FSC)		
+ <i>Lycaeides argyrognomon lotis</i> Lotis blue butterfly	G5T1S1		FE		
+ <i>Lycaena hermes</i> Hermes copper butterfly	G1G2S1S2			VU/D2	
<i>Lycaena rubidus incanus</i> White Mountains copper butterfly	G5T1S1				
<i>Mitoura thornei</i> Thorne's hairstreak butterfly	G1S1				
+ <i>Panoquina errans</i> Wandering (=Saltmarsh) skipper	G4G5S1			LRnt	
+ <i>Philotiella speciosa bohartorum</i> Bohart's blue butterfly	G3T1S1		(FSC)		
<i>Plebulina emigdionis</i> San Emigdio blue butterfly	G2G3S2S3		(FSC)		
+ <i>Plebejus saepiolus albomontanus</i> White Mountains saepiolus blue butterfly	G5T2S1S2				
+ <i>Plebejus saepiolus aureolus</i> San Gabriel Mountains blue butterfly	G5T1S1				
<i>Polites mardon</i> Mardon skipper	G2G3S1		FC		
<i>Polites sabuleti albomontana</i> White Mountains sandhill skipper	G5T2S1S2				
<i>Pseudocopaeodes eunus eunus</i> Alkali (=wandering) skipper	G3G4T1T3S1S3				
<i>Pseudocopaeodes eunus obscurus</i> Carson wandering skipper	G3G4T1S1		FE		
<i>Pyrgus ruralis lagunae</i> Laguna Mountains skipper	G5T1S1		FE		
+ <i>Speyeria adiasste adiaste</i> Unsilvered fritillary butterfly	G1G2T1S1		(FSC)		
+ <i>Speyeria callippe callippe</i> Callippe silverspot butterfly	G5T1S1		FE		
<i>Speyeria egleis tehachapina</i> Tehachapi Mountain silverspot butterfly	G5T1T2S1S2		(FSC)		

	<u>CNDBD RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Speyeria nokomis carsonensis</i> Carson Valley silverspot butterfly	G3T1S1				
+ <i>Speyeria zerene behrensii</i> Behren's silverspot butterfly	G5T1S1		FE		
+ <i>Speyeria zerene hippolyta</i> Oregon silverspot butterfly	G5T1S1		FT		
+ <i>Speyeria zerene myrtleae</i> Myrtle's silverspot butterfly	G5T1S1		FE		
+ <i>Thessalia leanira elegans</i> Oso Flaco patch checkerspot butterfly	G4G5T1T2S1S2				

**INSECTA, Order Trichoptera (caddisflies)**

<i>Cryptochia denningi</i> Denning's cryptic caddisfly	G?S?	(FSC)
<i>Cryptochia excella</i> Kings Canyon cryptochian caddisfly	G1G3S1S3	(FSC)
<i>Cryptochia Shasta</i> Confusion caddisfly	G?S?	(FSC)
<i>Desmona bethula</i> Amphibious caddisfly	G?S?	(FSC)
<i>Diplectrona californica</i> California diplectronan caddisfly	G1G3S1S3	
<i>Ecclisomyia bilera</i> King's Creek eccliosomian caddisfly	G1G3S1S3	(FSC)
<i>Farula praelonga</i> Long-tailed caddisfly	G?S?	(FSC)
<i>Goeracea oregana</i> Sagehen Creek goeracean caddisfly	G2S?	(FSC)
<i>Lepidostoma ermanae</i> Cold Spring caddisfly	G?S?	(FSC)
+ <i>Limnephilus atercus</i> Fort Dick limnophilus caddisfly	G2?S1	
<i>Neothremma genella</i> Golden-horned caddisfly	G?S?	(FSC)
<i>Neothremma siskiyou</i> Siskiyou caddisfly	G?S?	(FSC)
+ <i>Parapsyche extensa</i> King's Creek parapsyche caddisfly	GHSH	(FSC)
<i>Rhyacophila lineata</i> Castle Crags rhyacophilan caddisfly	G1G3S1S3	(FSC)
+ <i>Rhyacophila mosana</i> Bilobed rhyacophilan caddisfly	G1G2S1S2	(FSC)
+ <i>Rhyacophila spinata</i> Spiny rhyacophilan caddisfly	G1G2S1S2	(FSC)

**INSECTA, Order Hymenoptera (ants, bees, & wasps)**

<i>Bombus franklini</i> Franklin's bumblebee	G?S?	(FSC)
+ <i>Eucerceris ruficeps</i> Redheaded sphecid wasp	G1G3S1S3	
+ <i>Myrmosula pacifica</i> Antioch mutilid wasp	GHSH	(FSC)

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+ <i>Perdita scituta antiochensis</i> Antioch andrenid bee	G1T1S1		(FSC)		

**FISHES (92 taxa)****PETROMYZONTIDAE (lampreys)**

<i>Lampetra ayresi</i> River lamprey	G4S4	(FSC)		DFG: CSC
+ <i>Lampetra hubbsi</i> Kern brook lamprey	G1G2S1S2	(FSC)	LRnt	DFG: CSC
<i>Lampetra similis</i> Klamath River lamprey	G3G4QS3S4			DFG: CSC
<i>Lampetra tridentata</i> Pacific lamprey	G5S?	(FSC)		
+ <i>Lampetra tridentata</i> ssp. 1 Goose Lake lamprey	G5T1S1			DFG: CSC FS: Sensitive

**ACIPENSERIDAE (sturgeon)**

<i>Acipenser medirostris</i> Green sturgeon	G3S1S2		VU/A1ac	DFG: CSC AFS: Endangered
<i>Acipenser transmontanus</i> White sturgeon	G3S2		LR/nt	AFS: Threatened

**SALMONIDAE (trout and salmon)**

+ <i>Oncorhynchus clarki clarki</i> Coast cutthroat trout	G4T4S3			DFG: CSC FS: Sensitive
+ <i>Oncorhynchus clarki henshawi</i> Lahontan cutthroat trout	G4T3S2	FT		
+ <i>Oncorhynchus clarki seleniris</i> Paiute cutthroat trout	G4T1T2S1S2	FT		
+ <i>Oncorhynchus gorbuscha</i> Pink salmon	G5S1			DFG: CSC
<i>Oncorhynchus keta</i> Chum salmon	G5S1?			DFG: CSC
+ <i>Oncorhynchus kisutch</i> Coho salmon – Central California ESU <sup>1</sup>	G4S2?	SE <sup>2</sup>	FT <sup>3</sup>	
+ <i>Oncorhynchus kisutch</i> Coho salmon – So. Oregon/No. Calif. ESU	G4S2?		FT <sup>4</sup>	DFG: CSC
+ <i>Oncorhynchus kisutch</i> Coho Salmon – Northern California pop. <sup>5</sup>	G4S2?	SC		
+ <i>Oncorhynchus mykiss aguabonita</i> Volcano Creek golden trout	G5T1S1	(FSC)		DFG: CSC FS: Sensitive
+ <i>Oncorhynchus mykiss aquilarum</i> Eagle Lake rainbow trout	G5T1S1	(FSC)		DFG: CSC FS: Sensitive

<sup>1</sup> ESU = Evolutionarily Significant Unit<sup>2</sup> The State listing is limited to Coho south of San Francisco Bay.<sup>3</sup> The Federal listing is limited to naturally spawning populations in streams between Punta Gorda, Humboldt County and the San Lorenzo River, Santa Cruz County.<sup>4</sup> Populations between Cape Blanco, Oregon & Punta Gorda, California.<sup>5</sup> State petition includes coho from San Francisco north to the Oregon border. Petition includes the San Francisco portion of the federal Central California Coast ESU and the northern California portion of the federal So. Oregon/No. Calif. ESU

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+ <i>Oncorhynchus mykiss</i> <sup>6</sup> Steelhead – Klamath Mountains Province ESU <sup>7</sup>	G5S2		(FSC)		DFG:CSC <sup>8</sup> FS: Sensitive
+ <i>Oncorhynchus mykiss</i> Steelhead – Northern California ESU	G5S2		FT <sup>9</sup>		DFG: CSC <sup>10</sup>
+ <i>Oncorhynchus mykiss</i> Steelhead – Central California Coast ESU	G5S2		FT <sup>11</sup>		FS: Sensitive
+ <i>Oncorhynchus mykiss</i> Steelhead – South/Central Calif. Coast ESU	G5S2		FT <sup>12</sup>		DFG: CSC <sup>13</sup>
+ <i>Oncorhynchus mykiss</i> Steelhead – Southern California ESU	G5S2		FE <sup>14</sup>		DFG: CSC <sup>15</sup>
<i>Oncorhynchus mykiss</i> Steelhead – Central Valley ESU	G5S2		FT <sup>16</sup>		
+ <i>Oncorhynchus mykiss</i> Steelhead – Summer-run <sup>17</sup>	G5QS2				DFG: CSC
<i>Oncorhynchus mykiss gilberti</i> Kern River rainbow trout	G5T1T2QS1S2		(FSC)		DFG: CSC
+ <i>Oncorhynchus mykiss whitei</i> Little Kern golden trout	G5T2QS2		FT		
+ <i>Oncorhynchus mykiss</i> ssp. 1 Goose Lake redband trout	G5T2QS1				DFG: CSC FS: Sensitive
+ <i>Oncorhynchus mykiss</i> ssp. 2 McCloud River redband trout	G5T1T2QS1S2		(FSC)		DFG: CSC FS: Sensitive
<i>Oncorhynchus mykiss</i> ssp. 3 Warner Valley redband trout	G5T2QS1?				FS: Sensitive
+ <i>Oncorhynchus tshawytscha</i> Chinook salmon – Spring-run	G5S1	ST	FT <sup>18</sup>		FS: Sensitive
<i>Oncorhynchus tshawytscha</i> Chinook salmon –Spring-run-Klamath-Trinity pop.	G5S1				DFG: CSC FS: Sensitive
<i>Oncorhynchus tshawytscha</i> Chinook salmon – Central Valley fall/late fall-run <sup>19</sup>	G5S2?				DFG: CSC FS: Sensitive

<sup>6</sup> All California steelhead belong to the subspecies *O.m. irideus*.

<sup>7</sup> This ESU includes all naturally spawned populations residing in streams between the Elk River in Oregon and the Klamath River in California, inclusive.

<sup>8</sup> CSC refers to California portion of ESU & refers only to the summer-run.

<sup>9</sup> Naturally spawned populations residing below impassable barriers in coastal basins from Redwood Creek in Humboldt County to, and including, the Gualala River in Mendocino County.

<sup>10</sup> CSC refers only to the summer-run.

<sup>11</sup> Federal listing includes all runs in coastal basins from the Russian River, south to Soquel Creek, inclusive. Includes the San Francisco and San Pablo Bay basins, but excludes the Sacramento-San Joaquin River basins.

<sup>12</sup> Federal listing includes all runs in coastal basins from the Pajaro River south to, but not including, the Santa Maria River.

<sup>13</sup> CSC refers to southern steelhead trout.

<sup>14</sup> Coastal basins from the Santa Maria River (inclusive), south to the U.S. – Mexico Border.

<sup>15</sup> CSC refers to southern steelhead trout.

<sup>16</sup> Federal listing includes all runs in the Sacramento & San Joaquin Rivers and their tributaries.

<sup>17</sup> Summer-run steelhead are part of both the Klamath Mountains Province ESU & the Northern California ESU.

<sup>18</sup> Federal listing refers to the Central Valley Spring-run ESU. It includes populations spawning in the Sacramento River & its tributaries.

<sup>19</sup> Central Valley fall/late fall-run ESU refers to population spawning in the Sacramento & San Joaquin Rivers and their tributaries.

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<i>Oncorhynchus tshawytscha</i> Chinook salmon – California coastal ESU	G5S1		FT <sup>20</sup>		FS: Sensitive
+ <i>Oncorhynchus tshawytscha</i> Chinook salmon – Winter-run	G5S1	SE	FE		
+ <i>Salvelinus confluentus</i> Bull trout	G3SX	SE	FT	VU/A2e	
<b>OSMERIDAE (smelt)</b>					
+ <i>Hypomesus transpacificus</i> Delta smelt	G1S1	ST	FT	EN/B1+2cd	AFS: Threatened
<i>Spirinchus thaleichthys</i> Longfin smelt	G5S1		(FSC)		DFG: CSC AFS: Threatened
<i>Thaleichthys pacificus</i> Eulachon	G5S3				DFG: CSC AFS: Threatened
<b>CYPRINIDAE (minnows and carp)</b>					
+ <i>Gila bicolor mohavensis</i> Mohave tui chub	G4T1S1	SE	FE		DFG: Fully protected
<i>Gila bicolor pectinifer</i> Lahontan Lake tui chub	G4T3S1S2				DFG: CSC FS: Sensitive
+ <i>Gila bicolor snyderi</i> Owens tui chub	G4T1S1	SE	FE		
+ <i>Gila bicolor thalassina</i> Goose Lake tui chub	G4T2S1				DFG: CSC FS: Sensitive
+ <i>Gila bicolor vaccaceps</i> Cowhead Lake tui chub	G4T1S1		FPE		DFG: CSC
+ <i>Gila bicolor</i> ssp. 1 Eagle Lake tui chub	G4T1S1				DFG: CSC
+ <i>Gila bicolor</i> ssp. 2 High Rock Springs tui chub	G4TXSX				DFG: CSC
+ <i>Gila coerulea</i> Blue chub	G3S2S3				DFG: CSC
+ <i>Gila elegans</i> Bonytail	G1S1	SE	FE	EN/B1+2ac	
+ <i>Gila orcutti</i> Arroyo chub	G2S2				DFG: CSC FS: Sensitive
<i>Lavinia exilicauda chi</i> Clear Lake hitch	G5T2S2				DFG: CSC FS: Sensitive
+ <i>Lavinia symmetricus mitrulus</i> Pit roach	G5T3S2		(FSC)		DFG: CSC
+ <i>Lavinia symmetricus navarroensis</i> Navarro roach	G5T1T2S1S2				DFG: CSC
+ <i>Lavinia symmetricus parvipinnis</i> Gualala roach	G5T1T2S1S2		(FSC)		DFG: CSC
+ <i>Lavinia symmetricus subditus</i> Monterey roach	G5T2T3S2S3				DFG: CSC

<sup>20</sup> Originally proposed as part of a larger Southern Oregon & California Coastal ESU. This new ESU was revised to include only naturally spawned coastal spring & fall Chinook salmon between Redwood Creek in Humboldt County & the Russian River in Sonoma County.

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	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Lavinia symmetricus</i> ssp. 1 San Joaquin roach	G5T3QS3				DFG: CSC
+ <i>Lavinia symmetricus</i> ssp. 2 Tomales roach	G5T2T3S2S3				DFG: CSC
+ <i>Lavinia symmetricus</i> ssp. 3 Red Hills roach	G5T1S1		(FSC)		DFG: CSC BLM: Sensitive
+ <i>Mylopharodon conocephalus</i> Hardhead	G3S3				DFG: CSC FS: Sensitive
+ <i>Pogonichthys macrolepidotus</i> Sacramento splittail	G2S2		(FSC)	EN/A1c	DFG: CSC
+ <i>Ptychocheilus lucius</i> Colorado pikeminnow	G1SX	SE	FE	VU/D2	DFG: Fully protected
+ <i>Rhinichthys osculus</i> ssp. 1 Amargosa Canyon Speckled dace	G5T1S1				DFG: CSC BLM: Sensitive
+ <i>Rhinichthys osculus</i> ssp. 2 Owens speckled dace	G5T1T2QS1S2				DFG: CSC
+ <i>Rhinichthys osculus</i> ssp. 3 Santa Ana Speckled dace	G5T1S1				DFG: CSC FS: Sensitive
<i>Rhinichthys osculus</i> ssp. 4 Benton Valley speckled dace	G5T1QS1				
<i>Rhinichthys osculus</i> ssp. 5 Long Valley speckled dace	G5T1S1				
<b>CATOSTOMIDAE (suckers)</b>					
+ <i>Catostomus fumeiventris</i> Owens sucker	G3S3				DFG: CSC
+ <i>Catostomus latipinnis</i> Flannelmouth sucker	G3G4S1				
+ <i>Catostomus microps</i> Modoc sucker	G1S1	SE	FE	EN/B1+2c, C1	DFG: Fully protected
+ <i>Catostomus occidentalis lacusanserinus</i> Goose Lake sucker	G5T2T3QS1				DFG: CSC FS: Sensitive
<i>Catostomus platyrhynchus</i> Mountain sucker	G5S2S3				DFG: CSC
<i>Catostomus rimiculus</i> ssp. 1 Jenny Creek sucker	G5T2QS1		(FSC)		
+ <i>Catostomus santaanae</i> Santa Ana sucker	G1S1		FT	VU/B1+2c,D2	DFG: CSC FS: Sensitive
+ <i>Catostomus snyderi</i> Klamath largescale sucker	G3S2		(FSC)	LRnt	DFG: CSC
+ <i>Chasmistes brevirostris</i> Shortnose sucker	G1S1	SE	FE	EN/B1+2c	DFG: Fully protected
+ <i>Deltistes luxatus</i> Lost River sucker	G1S1	SE	FE	EN/B1+2cd	DFG: Fully protected
+ <i>Xyrauchen texanus</i> Razorback sucker	G1S1	SE	FE	EN/A1bc	DFG: Fully protected
<b>CYPRINODONTIDAE (killifishes)</b>					
+ <i>Cyprinodon macularius</i> Desert pupfish	G1S1	SE	FE		

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	<u>CNDBB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Cyprinodon nevadensis amargosae</i> Amargosa pupfish	G2T1S1				DFG: CSC BLM: Sensitive
+ <i>Cyprinodon nevadensis nevadensis</i> Saratoga Springs pupfish	G2T1S1				DFG: CSC
+ <i>Cyprinodon nevadensis shoshone</i> Shoshone pupfish	G2T1S1				DFG: CSC
+ <i>Cyprinodon radiosus</i> Owens pupfish	G1S1	SE	FE	EN/A2ce	DFG: Fully protected
+ <i>Cyprinodon salinus milleri</i> Cottonball Marsh pupfish	G1T1S1	ST			
+ <i>Cyprinodon salinus salinus</i> Salt Creek pupfish	G1T1S1				DFG: CSC
<b>GASTEROSTEIDAE</b> (sticklebacks)					
+ <i>Gasterosteus aculeatus williamsoni</i> Unarmored threespine stickleback	G5T1S1	SE	FE		DFG: Fully protected
<i>Gasterosteus aculeatus santaanae</i> Santa Ana threespine stickleback	G5T1QS1				
<i>Gasterosteus aculeatus</i> ssp. Shay Creek threespine stickleback	G5T1S1				DFG: CSC
<b>PERCICHTHYIDAE</b> (temperate basses)					
<i>Stereolepis gigas</i> Giant sea bass	G3?S1S2			CR/A1bd	AFS: Vulnerable
<b>CENTRARCHIDAE</b> (sunfishes)					
+ <i>Archoplites interruptus</i> (within native range) Sacramento perch	G3S1		(FSC)		DFG: CSC
<b>EMBIOTOCIDAE</b> (surfperches)					
+ <i>Hysterocarpus traskii pomo</i> Russian River tule perch	G5T2S2		(FSC)		DFG: CSC
<b>GOBIIDAE</b> (gobies)					
+ <i>Eucyclogobius newberryi</i> Tidewater goby	G3S2S3		FE	VU/A1c+2c	DFG: CSC AFS: Endangered
<b>COTTIDAE</b> (sculpins)					
+ <i>Cottus asperimus</i> Rough sculpin	G2S2	ST	(FSC)	VU/D2	DFG: Fully protected
+ <i>Cottus klamathensis macrops</i> Bigeye marbled sculpin	G4T3S3				DFG: CSC
<i>Cottus perplexus</i> Reticulate sculpin	G4S2S3				DFG: CSC

**AMPHIBIANS (36 taxa)****AMBystomatidae** (mole salamanders)

+ <i>Ambystoma macrodactylum croceum</i> Santa Cruz long-toed salamander	G5T1S1	SE	FE	DFG: Fully protected
+ <i>Ambystoma californiense</i> California tiger salamander Central California DPS <sup>21</sup> Santa Barbara County DPS Sonoma County DPS	G2G3S2S3			VU/A2c DFG: CSC
			FPT <sup>22</sup>	
			FE <sup>23</sup>	
			FE <sup>24</sup>	

**RHYACOTRITONIDAE** (Olympic salamanders)

+ <i>Rhyacotriton variegatus</i> Southern torrent salamander	G3G4S2S3	(FSC)	DFG: CSC FS: Sensitive
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**SALAMANDRIDAE** (newts)

+ <i>Taricha torosa torosa</i> Coast Range newt (Monterey Co. south only)	G5T4S4		DFG: CSC
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**PLETHODONTIDAE** (lungless salamanders)

+ <i>Batrachoseps major aridus</i> Desert slender salamander	G4T1S1	SE	FE	CR/A2cd
+ <i>Batrachoseps campi</i> Inyo Mountains slender salamander	G2S2			EN/B1+2a DFG: CSC FS: Sensitive BLM: Sensitive
+ <i>Batrachoseps gabrieli</i> San Gabriel slender salamander	G2S2			FS: Sensitive
+ <i>Batrachoseps pacificus pacificus</i> Channel Islands slender salamander	G3QT2S2			
<i>Batrachoseps relictus</i> Relictual slender salamander	G2S2		(FSC)	DFG: CSC FS: Sensitive
+ <i>Batrachoseps simatus</i> Kern Canyon slender salamander	G2S2	ST	(FSC)	VU/D2 FS: Sensitive
+ <i>Batrachoseps stebbinsi</i> Tehachapi slender salamander	G2S2	ST	(FSC)	VU/D2 FS: Sensitive BLM: Sensitive
+ <i>Batrachoseps robustus</i> Kern slender salamander	G2S2			FS: Sensitive
+ <i>Batrachoseps</i> sp. 1 Breckenridge Mountain slender salamander	G1QS1		(FSC)	DFG: CSC FS: Sensitive

<sup>21</sup> DPS = Distinct Vertebrate Population Segment

<sup>22</sup> Proposal to list the Central California DPS as threatened includes proposal to reclassify the Sonoma County DPS & Santa Barbara County DPS from Endangered to Threatened.

<sup>23</sup> Federal listing refers to the Santa Barbara County DPS.

<sup>24</sup> Federal listing refers to the Sonoma County DPS.

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	<u>CNDBB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Ensatina eschscholtzi croceator</i> Yellow-blotted salamander	G5T2T3S2S3		(FSC)		DFG: CSC FS: Sensitive BLM: Sensitive
+ <i>Ensatina klauberi</i> Large-blotted salamander	G5S2S3				DFG: CSC FS: Sensitive
+ <i>Hydromantes brunus</i> Limestone salamander	G1S1	ST	(FSC)	VU/D2	DFG: Fully protected FS: Sensitive
+ <i>Hydromantes platycephalus</i> Mount Lyell salamander	G3S3		(FSC)		DFG: CSC
+ <i>Hydromantes shastae</i> Shasta salamander	G1G2S1S2	ST	(FSC)	VU/D2	FS: Sensitive
+ <i>Hydromantes</i> sp. 1 Owens Valley web-toed salamander (AKA Oak Creek salamander)	G1QS1				DFG: CSC
+ <i>Plethodon elongatus</i> Del Norte salamander	G3S3		(FSC)		DFG: CSC
+ <i>Plethodon stormi</i> Siskiyou Mountains salamander	G2G3QS1S2	ST	(FSC)	VU/D2	
<b>ASCAPHIDAE</b> (tailed frogs)					
+ <i>Ascaphus truei</i> Western tailed frog	G4S2S3		(FSC)		DFG: CSC
<b>PELOBATIDAE</b> (spadefoot toads)					
+ <i>Scaphiopus couchii</i> Couch's spadefoot	G5S2S3				DFG: CSC BLM: Sensitive
+ <i>Spea (=Scaphiopus) hammondii</i> Western spadefoot	G3S3		(FSC)		DFG: CSC BLM: Sensitive
<b>BUFONIDAE</b> (true toads)					
+ <i>Bufo alvarius</i> Colorado River toad	G5SH				DFG: CSC
+ <i>Bufo canorus</i> Yosemite toad	G1G2S1S2			EN/A1a, B2be+3b	DFG: CSC FS: Sensitive
+ <i>Bufo exsul</i> Black toad	G1QS1	ST		VU/D2	DFG: Fully protected
+ <i>Bufo californicus</i> <sup>25</sup> Arroyo toad	G2G3S2S3		FE		DFG: CSC
<b>RANIDAE</b>					
+ <i>Rana aurora aurora</i> Northern red-legged frog	G4T4S2?		(FSC)		DFG: CSC FS: Sensitive
+ <i>Rana aurora draytonii</i> California red-legged frog	G4T2T3S2S3		FT <sup>26</sup>		DFG: CSC

<sup>25</sup> Formerly *Bufo microscaphus californicus*, now considered a full species.

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	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Rana boylii</i> Foothill yellow-legged frog	G3S2S3		(FSC)		DFG: CSC FS: Sensitive BLM: Sensitive
+ <i>Rana cascadae</i> Cascades frog	G3G4S3		(FSC)	VU/A1a	DFG: CSC FS: Sensitive
+ <i>Rana muscosa</i> Mountain yellow-legged frog	G2S2		FE <sup>27</sup>	VU/A1a	DFG: CSC FS: Sensitive
+ <i>Rana pipiens</i> Northern leopard frog	G5S2				DFG: CSC FS: Sensitive
+ <i>Rana pretiosa</i> Oregon spotted frog	G2S1		FC		DFG: CSC FS: Sensitive
<i>Rana yavapaiensis</i> Lowland (=Yavapai, San Sebastian & San Felipe) leopard frog	G4SX				DFG: CSC BLM: Sensitive

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<sup>26</sup> Federal listing does not include Humboldt, Trinity, & Mendocino Counties; Glenn, Lake & Sonoma Counties west of the Central Valley Hydrologic Basin; Sonoma & Marin Counties north and west of the Napa River, Sonoma Creek & Petaluma River drainages which flow into San Francisco Bay, & north of the Walker Creek drainage which flows to the Pacific Ocean.

<sup>27</sup> Federal listing refers to populations in the San Gabriel, San Jacinto & San Bernardino Mountains only.

CNDDB <u>RANK</u>	CESA	ESA	IUCN	OTHER
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**REPTILES (42 taxa)****KINOSTERNIDAE** (musk and mud turtles)

<i>Kinosternon sonoriense</i> Sonoran mud turtle	G4SH		VU/A1c	DFG: CSC
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**EMYDIDAE** (Box and water turtles)

+ <i>Emys (=Clemmys) marmorata</i> Western pond turtle	G3G4S3		VU/A1cd	DFG: CSC
+ <i>Emys (=Clemmys) marmorata marmorata</i> Northwestern pond turtle	G3G4T3S3	(FSC)		DFG: CSC FS: Sensitive
+ <i>Emys (=Clemmys) marmorata pallida</i> Southwestern pond turtle	G3G4T2T3S2	(FSC)		DFG: CSC FS: Sensitive BLM: Sensitive

**TESTUDINIDAE** (land tortoises)

+ <i>Gopherus agassizi</i> Desert tortoise	G4S2	ST	FT	VU/A1acde +2cde, E
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**GEKKONIDAE** (geckos)

+ <i>Coleonyx switaki</i> Barefoot gecko	G4S1	ST		
+ <i>Coleonyx variegatus abbotti</i> San Diego banded gecko	G5T3T4S2S3			

**IGUANIDAE** (iguanids)

+ <i>Sauromalus obesus</i> Chuckwalla	G5S4			
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**CROTAPHYTIDAE**

+ <i>Gambelia sila</i> Blunt-nosed leopard lizard	G1S1	SE	FE	EN/A1ce	DFG: Fully protected
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**PHRYNOSOMATIDAE**

+ <i>Phrynosoma coronatum</i> Coast horned lizard (blainvilliei population)	G4T3T4S2S3			DFG: CSC FS: Sensitive
+ <i>Phrynosoma coronatum</i> Coast horned lizard (frontale population)	G4T3T4S3S4	(FSC)		DFG: CSC BLM: Sensitive
+ <i>Phrynosoma mcallii</i> Flat-tailed horned lizard	G3S2			DFG: CSC BLM: Sensitive
+ <i>Sceloporus graciosus graciosus</i> Northern sagebrush lizard	G5T5S3	(FSC)		BLM: Sensitive
+ <i>Uma inornata</i> Coachella Valley fringe-toed lizard	G1S1	SE	FT	EN/A1a, B1+2c

	CNDDB <u>RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Uma notata</i> Colorado Desert fringe-toed lizard	G3QS2?				DFG: CSC BLM: Sensitive
<i>Uma scoparia</i> Mojave fringe-toed lizard	G3G4QS3S4				DFG: CSC BLM: Sensitive
<b>XANTUSIIDAE (night lizards)</b>					
<i>Xantusia gracilis</i> Sandstone night lizard	G1S1				DFG: CSC
+ <i>Xantusia riversiana</i> Island night lizard	G1S1	FT		VU/D2	
<i>Xantusia vigilis sierrae</i> Sierra night lizard	G5T1S1	(FSC)			DFG: CSC FS: Sensitive
<b>SCINCIDAE (skinks)</b>					
+ <i>Eumeces skiltonianus interparietalis</i> Coronado skink	G5T2T3QS1S2				DFG: CSC BLM: Sensitive
<b>TEIIDAE (whiptails and relatives)</b>					
+ <i>Aspidoscelis hyperythra beldingi</i> Beldings orange-throated whiptail	G5T2S2		DD (full species)		DFG: CSC
+ <i>Aspidoscelis tigris stejnegeri</i> Coastal western whiptail	G5T3T4S2S3				
<b>ANGUIDAE (alligator lizards)</b>					
+ <i>Elgaria (=Gerrhonotus) panamintinus</i> Panamint alligator lizard	G1G2S1S2			VU/D2	DFG: CSC FS: Sensitive BLM: Sensitive
<b>ANNIELLIDAE (Legless lizards)</b>					
+ <i>Anniella pulchra pulchra</i> Silvery legless lizard	G3G4T3T4QS3	(FSC)			DFG: CSC FS: Sensitive (full species)
+ <i>Anniella pulchra nigra</i> Black legless lizard	G3G4T2T3QS2				DFG: CSC FS: Sensitive (full species)
<b>HELODERMATIDAE (venomous lizards)</b>					
+ <i>Heloderma suspectum cinctum</i> Banded gila monster (population west of Colorado River)	G4T4S1			VU/A2cd (full species)	DFG: CSC BLM: Sensitive (full species)
<b>BOIDAE (boas)</b>					
+ <i>Charina umbratica</i> Southern rubber boa	G5S2S3	ST	(FSC)		FS: Sensitive

	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Charina trivirgata</i> Rosy boa	G4G5S3S4		(FSC)		BLM: Sensitive FS: Sensitive (ssp. <i>Roseofusca</i> )
<b>COLUBRIDAE</b> (colubrids)					
<i>Bogertiphis rosaliae</i> Baja California rat snake	G4S1				DFG: CSC
+ <i>Diadophis punctatus modestus</i> San Bernardino ringneck snake	G5T2T3S2?				FS: Sensitive
+ <i>Diadophis punctatus similis</i> San Diego ringneck snake	G5T2T3S2?				FS: Sensitive
+ <i>Lampropeltis zonata</i> California mountain kingsnake (San Bernardino population)	G4G5S2?				DFG: CSC FS: Sensitive
+ <i>Lampropeltis zonata</i> California mountain kingsnake (San Diego population)	G4G5S1S2				DFG: CSC FS: Sensitive
+ <i>Masticophis flagellum ruddocki</i> San Joaquin whipsnake	G5T2T3S2?		(FSC)		DFG: CSC
+ <i>Masticophis lateralis euryxanthus</i> Alameda whipsnake (=striped racer)	G4T2S2	ST	FT		
<i>Pituophis catenifer pumilus</i> Santa Cruz gopher snake	G5T1T2S1?				DFG: CSC
+ <i>Salvadora hexalepis virgultea</i> Coast patch-nosed snake	G5T3S2S3				DFG: CSC
+ <i>Thamnophis gigas</i> Giant garter snake	G2G3S2S3	ST	FT	VU/A1cde+ 2cde	
+ <i>Thamnophis hammondii</i> Two-striped garter snake	G3S2			DD	DFG: CSC FS: Sensitive BLM: Sensitive
+ <i>Thamnophis sirtalis tetrataenia</i> San Francisco garter snake	G5T2S2	SE	FE		DFG: Fully Protected
<i>Thamnophis sirtalis</i> ssp. South Coast garter snake	G5T1T2S1S2				DFG: CSC
<b>VIPERIIDAE</b> (vipers)					
+ <i>Crotalus ruber ruber</i> Northern red-diamond rattlesnake	G4T3T4S2?				DFG: CSC

CNDDB <u>RANK</u>	CESA	ESA	IUCN	OTHER
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**BIRDS (138 taxa)****GAVIIDAE** (loons)

<i>Gavia immer</i> (nesting) Common loon	G5S1			DFG: CSC
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**HYDROBATIDAE** (storm petrels)

+ <i>Oceanodroma furcata</i> (rookery site) Fork-tailed storm-petrel	G5S1			DFG: CSC
+ <i>Oceanodroma homochroa</i> (rookery site) Ashy storm-petrel	G2S2	(FSC)	LRnt	DFG: CSC FWS: BCC USBC: Watch list Audubon: Watch list
+ <i>Oceanodroma Melania</i> (rookery site) Black storm-petrel	G2S1			DFG: CSC USBC: Watch list Audubon: Watch list

**PELECANIIDAE** (pelicans)

+ <i>Pelecanus erythrorhynchos</i> (nesting colony) American white pelican	G3S1			DFG: CSC
+ <i>Pelecanus occidentalis californicus</i> California brown pelican (nesting colony) and (communal roosts)	G4T3S1S2	SE	FE	DFG: Fully protected

**PHALACROCORACIDAE** (cormorants)

+ <i>Phalacrocorax auritus</i> (rookery site) Double-crested cormorant	G5S3			DFG: CSC
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**ARDEIDAE** (herons, egrets, and bitterns)

+ <i>Ardea alba</i> (rookery) Great egret	G5S4			CDF: Sensitive
+ <i>Ardea herodias</i> (rookery) Great blue heron	G5S4			CDF: Sensitive
<i>Botaurus lentiginosus</i> American bittern	G4S3	(FSC)		
+ <i>Egretta thula</i> (rookery) Snowy egret	G5S4			USBC: Watch list
+ <i>Ixobrychus exilis</i> (nesting) Least bittern	G5S1			DFG: CSC
+ <i>Nycticorax nycticorax</i> (rookery) Black-crowned night heron	G5S3			BLM: Sensitive

**THRESKIORNITHIDAE** (ibises and spoonbills)

+ <i>Plegadis chihi</i> (rookery site) White-faced ibis	G5S1	(FSC)	DFG: CSC
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	CNDDDB <u>RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<b>CICONIIDAE (storks)</b>					
<i>Mycteria Americana</i> Wood stork	G4S2?				DFG: CSC USBC: Watch list
<b>CATHARTIDAE (New World vultures)</b>					
+ <i>Gymnogyps californianus</i> California condor	G1S1	SE	FE	CR/D	CDF: Sensitive DFG: Fully protected USBC: Watch list Audubon: Watch list
<b>ANATIDAE (ducks, geese, and swans)</b>					
<i>Aythya valisineria</i> (nesting) Canvasback	G5S2?				
+ <i>Branta Canadensis leucopareia</i> (wintering) Aleutian Canada goose	G5T3S2		Delisted (FSC) <sup>28</sup>		
<i>Bucephala islandica</i> (nesting) Barrow's goldeneye	G5S1				DFG: CSC
<i>Dendrocygna bicolor</i> (nesting) Fulvous whistling duck	G5S1S3				DFG: CSC
+ <i>Histrionicus histrionicus</i> (nesting) Harlequin duck	G4S2		(FSC)		DFG: CSC BLM: Sensitive
<b>ACCIPITRIDAE (hawks, kites, harriers, &amp; eagles)</b>					
+ <i>Accipiter cooperi</i> (nesting) Cooper's hawk	G5S3				DFG: CSC
+ <i>Accipiter gentilis</i> (nesting) Northern goshawk	G5S3		(FSC)		DFG: CSC FS: Sensitive CDF: Sensitive
+ <i>Accipiter striatus</i> (nesting) Sharp-shinned hawk	G5S3				DFG: CSC
+ <i>Aquila chrysaetos</i> (nesting and wintering) Golden eagle	G5S3				DFG: CSC DFG: Fully protected FWS: BCC CDF: Sensitive BLM: Sensitive
+ <i>Buteo regalis</i> (wintering) Ferruginous hawk	G4S3S4		(FSC)	LRnt	DFG: CSC Audubon: Watch list FWS: BCC BLM: Sensitive
+ <i>Buteo swainsoni</i> (nesting) Swainson's hawk	G5S2	ST	(FSC)		FS: Sensitive USBC: Watch list FWS: BCC Audubon: Watch list
+ <i>Circus cyaneus</i> (nesting) Northern harrier	G5S3				DFG: CSC

<sup>28</sup> Delisted species are monitored for 5 years.

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	CNDDB <u>RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Elanus leucurus</i> (nesting) White-tailed kite	G5S3		(FSC)		FWS: MNBMC DFG: Fully protected
+ <i>Haliaeetus leucocephalus</i> (nesting & wintering) Bald eagle	G4S2	SE	FPD FT		CDF: Sensitive DFG: Fully protected
+ <i>Pandion haliaetus</i> (nesting) Osprey	G5S3				DFG: CSC CDF: Sensitive
<i>Parabuteo unicinctus</i> (nesting) Harris' hawk	G5SH				DFG: CSC Audubon: Watch list
<b>FALCONIDAE (falcons)</b>					
+ <i>Falco columbarius</i> (wintering) Merlin	G5S3				DFG: CSC
+ <i>Falco mexicanus</i> (nesting) Prairie falcon	G5S3				DFG: CSC FWS: BCC
+ <i>Falco peregrinus anatum</i> (nesting) American peregrine falcon	G4T3S2	SE	Delisted (FSC) <sup>29</sup>		FWS: BCC (full species) CDF: Sensitive DFG: Fully protected
<b>PHASIANIDAE (grouse and ptarmigan)</b>					
<i>Bonasa umbellus</i> Ruffed grouse	G5S4				DFG: CSC
+ <i>Centrocercus urophasianus</i> (nesting & leks) Greater Sage-grouse	G4S3		(FSC)		DFG: CSC Audubon: Watch list BLM: Sensitive FS: Sensitive
<i>Tympanuchus phasianellus columbianus</i> Columbian sharp-tailed grouse	G4T3SX				DFG: CSC
<b>RALLIDAE (rails, coots, and gallinules)</b>					
+ <i>Coturnicops noveboracensis</i> Yellow rail	G4S1S2				DFG: CSC FWS: BCC USBC: Watch list Audubon: Watch list
+ <i>Laterallus jamaicensis coturniculus</i> California black rail	G4T1S1	ST	(FSC)	LRnt (full species)	USBC: Watch list (full species) DFG: Fully protected Audubon: Watch list (full species) FWS: BCC (full species)
+ <i>Rallus longirostris levipes</i> Light-footed clapper rail	G5T1T2S1	SE	FE		DFG: Fully protected USBC: Watch list (full species)

<sup>29</sup> Delisted species are monitored for 5 years.

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	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Rallus longirostris obsoletus</i> California clapper rail	G5T1S1	SE	FE		DFG: Fully protected USBC: Watch list (full species)
+ <i>Rallus longirostris yumanensis</i> Yuma clapper rail	G5T3S1	ST	FE		DFG: Fully protected USBC: Watch list (full species)
<b>GRUIDAE (cranes)</b>					
+ <i>Grus canadensis tabida</i> (nesting & wintering) Greater sandhill crane	G5T4S2	ST	(FSC)		DFG: Fully protected FS: Sensitive
<b>CHARADRIIDAE (plovers and relatives)</b>					
+ <i>Charadrius alexandrinus nivosus</i> (nesting) Western snowy plover (coastal population)	G4T3S2		FT		DFG: CSC FWS: BCC (full species) USBC: Watch list (full species) Audubon: Watch list (full species)
+ <i>Charadrius montanus</i> (wintering) Mountain plover	G2S2?		(FSC)	VU/A1bc + 2bc, C1	DFG: CSC USBC: Watch list FWS: BCC Audubon: Watch list
<b>HAEMATOPODIDAE (oystercatchers)</b>					
<i>Haematopus bachmani</i> (nesting) Black oystercatcher	G5S2		(FSC)		USBC: Watch list Audubon: Watch list FWS: BCC
<b>SCOLOPACIDAE (sandpipers and relatives)</b>					
<i>Numenius americanus</i> (nesting) Long-billed curlew	G5S2		(FSC)	LRnt	DFG: CSC FWS: BCC USBC: Watch list Audubon: Watch list
<b>LARIDAE (gulls and terns)</b>					
+ <i>Chlidonias niger</i> (nesting colony) Black tern	G4S2				DFG: CSC
<i>Larus atricilla</i> (nesting colony) Laughing gull	G5SH				DFG: CSC
+ <i>Larus californicus</i> (nesting colony) California gull	G5S2				DFG: CSC
+ <i>Rynchops niger</i> (nesting colony) Black skimmer	G5S1S3		(FSC)		DFG: CSC FWS:BCC USBC: Watch list
+ <i>Sterna antillarum browni</i> (nesting colony) California least tern	G4T2T3S2S3	SE	FE		DFG: Fully protected USBC: Watch list (full species)

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	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Sterna caspia</i> (nesting colony) Caspian tern	G5S4				FWS: BCC
<i>Sterna elegans</i> (nesting colony) Elegant tern	G2S1		(FSC)	LRnt	DFG: CSC FWS:BCC Audubon: Watch list
<i>Sterna forsteri</i> (nesting colony) Forster's tern	G5S4				
+ <i>Sterna nilotica</i> (nesting colony) Gull-billed tern	G5S1				DFG: CSC
<b>ALCIDAE</b> (auklets, puffins, and relatives)					
+ <i>Brachyramphus marmoratus</i> (nesting) Marbled murrelet	G3G4S1	SE	FT	VU/A1abcde +2bcde	CDF: Sensitive USBC: Watch list Audubon: Watch list
+ <i>Cerorhinca monocerata</i> (nesting colony) Rhinoceros auklet	G5S3				DFG: CSC
+ <i>Fratercula cirrhata</i> (nesting colony) Tufted puffin	G5S2				DFG: CSC
<i>Ptychoramphus aleuticus</i> (nesting colony) Cassin's auklet	G4S?		(FSC)		
+ <i>Synthliboramphus hypoleucus</i> (nesting colony) Xantus's murrelet	G3G4S3	SCT	(FSC)	VU/B1+2de, C1	DFG: CSC FWS:BCC USBC: Watch list Audubon: Watch list
<b>CUCULIDAE</b> (cuckoos and relatives)					
+ <i>Coccyzus americanus occidentalis</i> (nesting) Western yellow-billed cuckoo	G5T2S1	SE	FC		FWS: BCC (full species) FS: Sensitive
<b>STRIGIDAE</b> (owls)					
+ <i>Asio flammeus</i> (nesting) Short-eared owl	G5S3				DFG: CSC USBC: Watch list Audubon: Watch list
+ <i>Asio otus</i> (nesting) Long-eared owl	G5S3				DFG: CSC
+ <i>Athene cunicularia</i> (burrow sites) Burrowing owl	G4S2		(FSC)		DFG: CSC FWS: BCC BLM: Sensitive
+ <i>Micrathene whitneyi</i> (nesting) Elf owl	G5S1	SE			USBC: Watch list FWS: BCC Audubon: Watch list
<i>Otus flammeolus</i> (nesting) Flammulated owl	G4S?		(FSC)		USBC: Watch list FWS: BCC Audubon: Watch list
+ <i>Strix nebulosa</i> (nesting) Great gray owl	G5S1	SE			FS: Sensitive CDF: Sensitive

	<u>CNDBB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Strix occidentalis caurina</i> <sup>30</sup> Northern spotted owl	G3T3S2S3		FT	LRnt (full species)	CDF: Sensitive USBC: Watch list (full species) Audubon: Watch list (full species)
<i>Strix occidentalis occidentalis</i> California spotted owl	G3T3S3		(FSC)	LRnt (full species)	DFG: CSC FS: Sensitive FWS: BCC BLM: Sensitive USBC: Watch list (full species) Audubon: Watch list (full species)
<b>APODIDAE (swifts)</b>					
<i>Chaetura vauxi</i> (nesting) Vaux's swift	G5S3		(FSC)		DFG: CSC
+ <i>Cypseloides niger</i> (nesting) Black swift	G4S2		(FSC)		DFG: CSC FWS: BCC USBC: Watch list Audubon: Watch list
<b>TROCHILIDAE (hummingbirds)</b>					
<i>Calypte costae</i> (nesting) Costa's hummingbird	G5S?		(FSC)		USBC: Watch list Audubon: Watch list
<i>Selasphorus rufus</i> (nesting) Rufous hummingbird	G5S1S2		(FSC)		FWS: BCC USBC: Watch list Audubon: Watch list
<i>Selasphorus sasin</i> (nesting) Allen's hummingbird	G5S?		(FSC)		USBC: Watch list Audubon: Watch list
<b>PICIDAE (woodpeckers)</b>					
+ <i>Colaptes chrysoides</i> Gilded flicker	G5S1	SE			FWS: BCC Audubon: Watch list
<i>Melanerpes lewis</i> (nesting) Lewis' woodpecker	G4S?		(FSC)		Audubon: Watch list FWS: BCC
+ <i>Melanerpes uropygialis</i> Gila woodpecker	G5S1S2	SE			FWS: BCC
<i>Picoides albolarvatus</i> (nesting) White-headed woodpecker	G4S?		(FSC)		FWS: BCC USBC: Watch list Audubon: Watch list
<i>Picoides nuttallii</i> (nesting) Nuttall's woodpecker	G5S?		(FSC)		USBC: Watch list Audubon: Watch list

<sup>30</sup> All EO's have been removed from the CNDBB. Spotted owl location information is available as a separate data layer from Gordon Gould (ggould@dfg.ca.gov)

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	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Sphyrapicus ruber</i> (nesting) Red-breasted sapsucker	G5S?		(FSC)		
<b>TYRANNIDAE</b> (tyrant flycatchers)					
<i>Contopus cooperi</i> (nesting) Olive-sided flycatcher	G4S4		(FSC)		Audubon: Watch list USBC: Watch list FWS: BCC
+ <i>Empidonax traillii</i> (nesting) Willow flycatcher	G5S1S2	SE <sup>31</sup>			FS: Sensitive USBC: Watch list Audubon: Watch list
<i>Empidonax traillii brewsteri</i> (nesting) Little willow flycatcher	G5T1T2S1S2		(FSC)		USBC: Watch list (full species) Audubon: Watch list (full species)
+ <i>Empidonax traillii extimus</i> (nesting) Southwestern willow flycatcher	G5T1T2S1		FE		USBC: Watch list (full species) Audubon: Watch list (full species)
+ <i>Myiarchus tyrannulus</i> (nesting) Brown-crested flycatcher	G5S2S3				DFG: CSC
+ <i>Pyrocephalus rubinus</i> (nesting) Vermillion flycatcher	G5S2S3				DFG: CSC
<b>LANIIDAE</b> (shrikes)					
+ <i>Lanius ludovicianus</i> (nesting) Loggerhead shrike	G4S4		(FSC)		DFG: CSC FWS: BCC
+ <i>Lanius ludovicianus mearnsi</i> San Clemente loggerhead shrike	G4T1S1		FE		
<i>Lanius ludovicianus anthonyi</i> Island loggerhead shrike	G4T1?S1?				DFG: CSC
<b>VIREONIDAE</b> (vireos)					
+ <i>Vireo bellii arizonae</i> (nesting) Arizona Bell's vireo	G5T4S1	SE			USBC: Watch list (full species) Audubon: Watch list (full species) FWS: BCC (full species)
+ <i>Vireo bellii pusillus</i> (nesting) Least Bell's vireo	G5T2S2	SE	FE		USBC: Watch list (full species) Audubon: Watch list (full species) FWS: BCC (full species)
+ <i>Vireo vicinior</i> (nesting) Gray vireo	G4S2				DFG: CSC FWS: BCC USBC: Watch list Audubon: Watch list BLM: Sensitive

<sup>31</sup> State listing includes all subspecies.

	CNDDB <u>RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<b>CORVIDAE</b> (jays, crows, and magpies)					
<i>Aphelocoma californica cana</i> Eagle Mountain western scrub jay	G5T1T2S1S2				DFG: CSC
<i>Aphelocoma insularis</i> Island scrub jay	G1S1			LRnt	FWS: BCC USBC: Watch list Audubon: Watch list
<b>ALAUDIDAE</b> (larks)					
+ <i>Eremophila alpestris actia</i> California horned lark	G5T3S3				DFG: CSC
+ <i>Progne subis</i> (nesting) Purple martin	G5S3				DFG: CSC
+ <i>Riparia riparia</i> (nesting) Bank swallow	G5S2S3	ST	(FSC)		
<b>PARIDAE</b> (titmice and relatives)					
<i>Baeolophus inornatus</i> (nesting) Oak titmouse	G5S?		(FSC)		USBC: Watch list Audubon: Watch list
<i>Parus atricapillus</i> Black-capped chickadee	G5S3				DFG: CSC
<b>TROGLODYTIDAE</b> (wrens)					
+ <i>Campylorhynchus brunneicapillus sandiegensis</i> <sup>32</sup> San Diego cactus wren (San Diego & Orange Counties only)	G5T3QS3				DFG: CSC FWS:BCC FS: Sensitive
<b>SYLVIIDAE</b> (gnatcatchers)					
+ <i>Polioptila californica californica</i> Coastal California gnatcatcher	G3T2S2		FT		DFG: CSC USBC: Watch list Audubon: Watch list
+ <i>Polioptila melanura</i> Black-tailed gnatcatcher	G5S4				
<b>MIMIDAE</b> (mockingbirds and thrashers)					
+ <i>Toxostoma bendirei</i> Bendire's thrasher	G4G5S3				DFG: CSC USBC: Watch list FWS: BCC Audubon: Watch list BLM: Sensitive
+ <i>Toxostoma crissal</i> Crissal thrasher	G5S3				DFG: CSC FWS: BCC

<sup>32</sup> Nomenclature follows the draft DFG Bird Species of Special Concern report.

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	CNDDB <u>RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Toxostoma lecontei</i> Le Conte's thrasher	G3S3				DFG: CSC FWS: BCC USBC: Watch list Audubon: Watch list BLM: Sensitive
<i>Toxostoma lecontei macmillanorum</i> San Joaquin Le Conte's thrasher	G4T1S1		(FSC)		DFG: CSC FWS: BCC (full species) USBC: Watch list (full species) Audubon: Watch list (full species)
<i>Toxostoma redivivum</i> California thrasher	G5S?		(FSC)		USBC: Watch list Audubon: Watch list
<b>PARULIDAE</b> (wood-warblers)					
<i>Dendroica occidentalis</i> (nesting) Hermit warbler	G4G5S3?		(FSC)		Audubon: Watch list
+ <i>Dendroica petechia brewsteri</i> (nesting) Yellow warbler	G5T3?S2				DFG: CSC
+ <i>Dendroica petechia sonorana</i> (nesting) Sonoran yellow warbler	G5T2T3S1				DFG: CSC FWS: BCC
+ <i>Geothlypis trichas sinuosa</i> Saltmarsh common yellowthroat	G5T2S2		(FSC)		DFG: CSC FWS: BCC
+ <i>Icteria virens</i> (nesting) Yellow-breasted chat	G5S3				DFG: CSC
<i>Vermivora luciae</i> (nesting) Lucy's warbler	G5S2S3				USBC: Watch list Audubon: Watch list
+ <i>Vermivora virginiae</i> (nesting) Virginia's warbler	G5S2S3				DFG: CSC FWS: BCC USBC: Watch list Audubon: Watch list
<b>THRAUPIDAE</b> (tanagers)					
+ <i>Piranga flava</i> (nesting) Hepatic tanager	G5S1				DFG: CSC
+ <i>Piranga rubra</i> (nesting) Summer tanager	G5S2				DFG: CSC
<b>EMBERIZIDAE</b> (sparrows, buntings, warblers, & relatives)					
+ <i>Aimophila ruficeps canescens</i> Southern California rufous-crowned sparrow	G5T2T4S2S3				DFG: CSC
+ <i>Amphispiza belli belli</i> Bell's sage sparrow	G5T2T4S2?		(FSC)		DFG: CSC FWS: BCC (full species)
+ <i>Amphispiza belli clementae</i> San Clemente sage sparrow	G5T1S1		FT		FWS: BCC (full species)

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	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Chondestes grammacus</i> (nesting) Lark sparrow	G5S?		(FSC)		
+ <i>Junco hyemalis caniceps</i> (nesting) Gray-headed junco	G5T5S1				DFG: CSC
+ <i>Melospiza melodia maxillaris</i> Suisun song sparrow	G5T2S2		(FSC)		DFG: CSC FWS: BCC
<i>Melospiza melodia pusilla</i> Alameda song sparrow	G5T2?S2?		(FSC)		DFG: CSC FWS: BCC
+ <i>Melospiza melodia samuelis</i> San Pablo song sparrow	G5T2?S2?		(FSC)		DFG: CSC FWS: BCC
+ <i>Passerculus sandwichensis beldingi</i> Belding's savannah sparrow	G5T3S3	SE			
<i>Passerculus sandwichensis rostratus</i> (wintering) Large-billed savannah sparrow	G5T2T3S2?				DFG: CSC
<i>Pipilo aberti</i> Abert's towhee	G3G4S2?				USBC: Watch list Audubon: Watch list
+ <i>Pipilo crissalis eremophilus</i> Inyo California towhee	G4G5T1S1	SE	FT		
<i>Pipilo maculatus clementae</i> San Clemente (spotted) towhee	G5T1S1				DFG: CSC
<i>Spizella atrogularis</i> (nesting) Black-chinned sparrow	G5S3				FWS: BCC USBC: Watch list Audubon: Watch list
<i>Spizella breweri</i> (nesting) Brewer's sparrow	G5S3				USBC: Watch list Audubon: Watch list
<i>Spizella passerina</i> (nesting) Chipping sparrow	G5S3S4				FWS: MNBMC
<b>CARDINALIDAE (cardinals)</b>					
+ <i>Cardinalis cardinalis</i> Northern cardinal	G5S1				DFG: CSC
<b>ICTERIDAE (blackbirds)</b>					
+ <i>Agelaius tricolor</i> (nesting colony) Tricolored blackbird	G2G3S2		(FSC)		DFG: CSC FWS: BCC USBC: Watch list Audubon: Watch list
+ <i>Xanthocephalus xanthocephalus</i> (nesting) Yellow-headed blackbird	G5S3S4				BLM: Sensitive
<b>FRINGILLIDAE (finches and relatives)</b>					
<i>Carduelis lawrencei</i> (nesting) Lawrence's goldfinch	G3G4S3		(FSC)		USBC: Watch list FWS: BCC Audubon: Watch list

**MAMMALS (120 taxa)****TALPIDAE (moles)**

<i>Scapanus latimanus parvus</i> Alameda Island mole	G5T1S1	(FSC)	DFG: CSC
+ <i>Scapanus latimanus insularis</i> Angel Island mole	G5T1S1		

**SORICIDAE (shrews)**

<i>Sorex lyelli</i> Mount Lyell shrew	G2G3S2S3	(FSC)	DFG: CSC
+ <i>Sorex ornatus relictus</i> Buena Vista Lake shrew	G5T1S1	FE	DFG: CSC
<i>Sorex ornatus salarius</i> Monterey shrew (AKA Salinas ornate shrew)	G5T1T2S1S2		DFG: CSC
<i>Sorex ornatus salicornicus</i> Southern California saltmarsh shrew	G5T1?S1?		DFG: CSC
+ <i>Sorex ornatus sinuosus</i> Suisun shrew	G5T1S1	(FSC)	DFG: CSC
+ <i>Sorex ornatus willetti</i> Santa Catalina shrew	G5T1S1		DFG: CSC
+ <i>Sorex vagrans halicoetes</i> Salt-marsh wandering shrew	G5T1S1	(FSC)	DFG: CSC
<i>Sorex vagrans paludivagus</i> No common name	G5T1S1		

**PHYLLOSTOMIDAE (leaf-nosed bats)**

+ <i>Choeronycteris mexicana</i> Mexican long-tongued bat	G4S1	LRnt	DFG: CSC WBWG: High priority
+ <i>Macrotus californicus</i> California leaf-nosed bat	G4S2S3	VU/A2c	DFG: CSC FS: Sensitive WBWG: High priority

**VESPERTILIONIDAE (evening bats)**

+ <i>Antrozous pallidus</i> Pallid bat	G5S3		DFG: CSC FS: Sensitive BLM: Sensitive WBWG: High priority
+ <i>Corynorhinus townsendii pallescens</i> Pale big-eared bat	G4T4S2S3	(FSC)	VU/A2c (full species) DFG: CSC FS: Sensitive (full species) BLM: Sensitive (full species) WBWG: High Priority

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	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Corynorhinus townsendii townsendii</i> Townsend's western big-eared bat	G4T3T4S2S3	(FSC)	VU/A2c (Full species)	DFG: CSC (full species) FS: Sensitive (full species) BLM: Sensitive (full species) WBWG: High Priority	
+ <i>Euderma maculatum</i> Spotted bat	G4S2S3	(FSC)		DFG: CSC BLM: Sensitive WBWG: High priority	
<i>Lasiurus blossevillii</i> Western red bat	G5S?			WBWG: High priority FS: Sensitive	
<i>Lasiurus xanthinus</i> Western yellow bat	G5S?			WBWG: High priority	
+ <i>Myotis ciliolabrum</i> Small-footed myotis	G5S?	(FSC)		BLM: Sensitive	
+ <i>Myotis evotis</i> Long-eared myotis	G5S4?	(FSC)		BLM: Sensitive	
<i>Myotis occultus</i> (= <i>Myotis lucifugus occultus</i> ) Occult little brown bat (AKA Arizona myotis)	G5T3T4S2S3			DFG: CSC	
+ <i>Myotis thysanodes</i> Fringed myotis	G4G5S4	(FSC)		BLM: Sensitive WBWG: High priority	
+ <i>Myotis velifer</i> Cave myotis	G5S1			DFG: CSC BLM: Sensitive	
+ <i>Myotis volans</i> Long-legged myotis	G5S4?	(FSC)		WBWG: High priority	
+ <i>Myotis yumanensis</i> Yuma myotis	G5S4?	(FSC)		BLM: Sensitive	
<b>MOLOSSIDAE (free-tailed bats)</b>					
+ <i>Eumops perotis</i> Western mastiff bat	G5S3?	(FSC) (ssp. <i>Californicus</i> )		DFG: CSC BLM: Sensitive WBWG: High priority	
+ <i>Nyctinomops femorosaccus</i> Pocketed free-tailed bat	G4S2S3			DFG: CSC	
<i>Nyctinomops macrotis</i> Big free-tailed bat	G5S2			DFG: CSC	
<b>OCHOTONIDAE (pikas)</b>					
<i>Ochotona princeps sheltoni</i> White Mountains pika	G5T1T2S1S2				
<b>LEPORIDAE (rabbits and hares)</b>					
+ <i>Brachylagus idahoensis</i> Pygmy rabbit	G4S3	(FSC)	LRnt	DFG: CSC	
<i>Lepus americanus klamathensis</i> Oregon snowshoe hare	G5T3T4S2?			DFG: CSC	

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	<u>CNDBB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Lepus americanus tahoensis</i> Sierra Nevada snowshoe hare	G5T3T4S2?		(FSC)		DFG: CSC
+ <i>Lepus californicus bennettii</i> San Diego black-tailed jackrabbit	G5T3S3?				DFG: CSC
<i>Lepus townsendii</i> White-tailed jackrabbit	G5S3?				DFG: CSC
+ <i>Sylvilagus bachmani riparius</i> Riparian brush rabbit	G5T1S1	SE	FE		
<b>APLODONTIDAE (mountain beavers)</b>					
+ <i>Aplodontia rufa californica</i> Sierra Nevada mountain beaver	G5T3T4S3?		(FSC)	LRnt	DFG: CSC
+ <i>Aplodontia rufa nigra</i> Point Arena mountain beaver	G5T1S1		FE	VU/B1+2de	DFG: CSC
+ <i>Aplodontia rufa phaea</i> Point Reyes mountain beaver	G5T2S2		(FSC)	VU/B1+2e	DFG; CSC
<b>SCIURIDAE (squirrels and relatives)</b>					
+ <i>Ammospermophilus nelsoni</i> San Joaquin antelope squirrel	G2S2	ST	(FSC)	EN/A1a, B1+2c	
<i>Glaucomys sabrinus californicus</i> San Bernardino flying squirrel	G5T3?S3?			DD	DFG: CSC FS: Sensitive
<i>Spermophilus lateralis bernardinus</i> San Bernardino ground squirrel	G5T1S1				
+ <i>Spermophilus mohavensis</i> Mohave ground squirrel	G2G3S2S3	ST	(FSC)	VU/B1+3d	
+ <i>Spermophilus tereticaudus chlorus</i> Palm Springs round-tailed ground squirrel	G5T1T2S1S2		FC	DD	DFG: CSC
+ <i>Tamias panamintinus acrus</i> Kingston Mountain chipmunk	G4T1T2S1S2				
+ <i>Tamias speciosus callipeplus</i> Mount Pinos chipmunk	G4T1T2S1S2				FS: Sensitive
<i>Tamias speciosus speciosus</i> Lodgepole chipmunk	G5T3?S3?				
<b>GEOMYIDAE (pocket gophers)</b>					
<i>Thomomys operarius</i> Owens Lake pocket gopher		G5T1?S1?			
<b>HETEROMYIDAE (kangaroo rats, pockets mice, &amp; kangaroo mice)</b>					
+ <i>Chaetodipus californicus femoralis</i> Dulzura (California) pocket mouse	G5T3S2?			DD	DFG: CSC
+ <i>Chaetodipus fallax fallax</i> Northwestern San Diego pocket mouse	G5T3S2S3			DD	DFG: CSC (full species)
+ <i>Chaetodipus fallax pallidus</i> Pallid San Diego pocket mouse	G5T3S3			DD	DFG: CSC (full species)
+ <i>Dipodomys californicus eximus</i> Marysville California kangaroo rat	G4T1S1		(FSC)		DFG: CSC BLM: Sensitive

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	<u>CNDBB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Dipodomys elephantinus</i> Big-eared kangaroo rat	G2S2				DFG: CSC
+ <i>Dipodomys heermanni berkeleyensis</i> Berkeley kangaroo rat	G3G4T1S1		(FSC)	VU/B1+2c	
+ <i>Dipodomys heermanni dixoni</i> Merced kangaroo rat	G3G4T2T3S2S3		(FSC)	LRnt	
+ <i>Dipodomys heermanni morroensis</i> Morro bay kangaroo rat	G3G4T1S1	SE	FE	CR/B1+2c,D	DFG: Fully protected
+ <i>Dipodomys ingens</i> Giant kangaroo rat	G2S2	SE	FE	CR/A1a, B1+2c	
<i>Dipodomys merriami collinsi</i> Earthquake Merriam's kangaroo rat	G5T2?S2?			DD	
+ <i>Dipodomys merriami parvus</i> San Bernardino Merriam's kangaroo rat	G5T1S1		FE	DD	DFG: CSC
+ <i>Dipodomys nitratoides brevinasus</i> Short-nosed kangaroo rat	G3T1T2S1S2		(FSC)	LRnt	DFG: CSC BLM: Sensitive
+ <i>Dipodomys nitratoides exilis</i> Fresno kangaroo rat	G3T1S1	SE	FE	CR/B1+2c	
+ <i>Dipodomys nitratoides nitratoides</i> Tipton kangaroo rat	G3T1S1	SE	FE	CR/A1c	
<i>Dipodomys panamintinus argusensis</i> Argus Mountains kangaroo rat	G5T1T3S1S3				
+ <i>Dipodomys panamintinus panamintinus</i> Panamint kangaroo rat	G5T3S3				
+ <i>Dipodomys stephensi</i> Stephens' kangaroo rat	G2S2	ST	FE	LRcd	
+ <i>Perognathus alticola alticola</i> White-eared pocket mouse	G1G2THSH			CR/B1+2b	DFG: CSC (full species) FS: Sensitive
+ <i>Perognathus alticola inexpectatus</i> Tehachapi pocket mouse	G1G2T1T2S1S2		(FSC)	LRnt	DFG: CSC (full species) FS: Sensitive
+ <i>Perognathus inornatus inornatus</i> San Joaquin pocket mouse	G4T2T3S2S3		(FSC)		BLM: Sensitive
<i>Perognathus inornatus psammophilus</i> Salinus pocket mouse	G4T2?S2?			LRnt	DFG: CSC
+ <i>Perognathus longimembris bangsi</i> Palm Springs pocket mouse	G5T2T3S2S3			DD	DFG: CSC
+ <i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse	G5T1?S1?			VU/B1+2c	DFG: CSC FS: Sensitive
+ <i>Perognathus longimembris internationalis</i> Jacumba pocket mouse	G5T2T3S1S2			DD	DFG: CSC
+ <i>Perognathus longimembris pacificus</i> Pacific pocket mouse	G5T1S1		FE	CR/B1+2c, C1+2ab	DFG: CSC
<i>Perognathus longimembris salinensis</i> No common name	G5T1S1				
<i>Perognathus longimembris tularensis</i> No common name	G5T1S1				
<i>Perognathus parvus xanthnotus</i> Yellow-eared pocket mouse	G1G2T1T2S1S2				BLM: Sensitive

	<u>CNDDB RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<b>MURIDAE (mice, rats, and voles)</b>					
+ <i>Arborimus albipes</i> White-footed vole	G3G4S2S3			DD	DFG: CSC
+ <i>Arborimus pomoe</i> Red tree vole	G3S3		(FSC)	DD	DFG: CSC
<i>Microtus californicus halophilus</i> Monterey vole	G5T1S1				
+ <i>Microtus californicus mohavensis</i> Mohave River vole	G5T1S1			VU/A1d+2d, D2	DFG: CSC
+ <i>Microtus californicus sanpabloensis</i> San Pablo vole	G5T1T2S1S2				DFG: CSC
+ <i>Microtus californicus scirpensis</i> Amargosa vole	G5T1S1	SE	FE		VU/B1+3cd
<i>Microtus californicus stephensi</i> Stephens' California vole	G5T1T2S1S2			DD	DFG:CSC
+ <i>Microtus californicus vallicola</i> Owens Valley vole	G5T1S1			LRnt	DFG: CSC
+ <i>Neotoma albigena venusta</i> Colorado Valley woodrat	G5T3T4SH				
<i>Neotoma fuscipes annectens</i> San Francisco dusky-footed woodrat	G5T2T3S2S3		(FSC)	DD	DFG: CSC
+ <i>Neotoma fuscipes Luciana</i> Monterey dusky-footed woodrat	G5T3?S3?			DD	DFG: CSC
+ <i>Neotoma fuscipes riparia</i> Riparian (=San Joaquin Valley) woodrat	G5T1S1		FE	CR/B1+2c	DFG: CSC
+ <i>Neotoma lepida intermedia</i> San Diego desert woodrat	G5T3?S3?			DD	DFG: CSC
<i>Onychomys torridus ramona</i> Southern grasshopper mouse	G5T3?S3?		(FSC)	DD	DFG: CSC
+ <i>Onychomys torridus tularensis</i> Tulare grasshopper mouse	G5T1T2S1S2		(FSC)	DD	DFG: CSC BLM: Sensitive
<i>Peromyscus maniculatus anacpae</i> Anacapa Island deer mouse	G5T1T2S1S2			LRnt	DFG: CSC
<i>Peromyscus maniculatus clementis</i> San Clemente deer mouse	G5T1T2S1S2			LRnt	DFG: CSC
+ <i>Reithrodontomys megalotus distichlus</i> Salinas harvest mouse	G5THSH				
+ <i>Reithrodontomys megalotus santacruzae</i> Santa Cruz harvest mouse	G5T1QS1				
+ <i>Reithrodontomys raviventris</i> Salt-marsh harvest mouse	G1G2S1S2	SE	FE	VU/A1c+2c B1+2c	DFG: Fully protected
+ <i>Sigmodon arizonae plenus</i> Colorado River cotton rat	G3?T1SH			LRnt	DFG: CSC
+ <i>Sigmodon hispidus eremicus</i> Yuma hispid cotton rat	G5T2T3S2			LRnt	DFG: CSC
<i>Zapus trinotatus orarius</i> Point Reyes jumping mouse	G5T1T3QS1S3		(FSC)	LRcd	DFG: CSC

	CNDBB <u>RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<b>CANIDAE (foxes, wolves, and coyotes)</b>					
+ <i>Urocyon littoralis</i> Island fox	G1S1	ST <sup>33</sup>		LRcd	
+ <i>Urocyon littoralis littoralis</i> San Miguel Island fox	G1T1S1		FPE		
+ <i>Urocyon littoralis santarosae</i> Santa Rosa Island fox	G1T1S1		FPE		
+ <i>Urocyon littoralis santacruzae</i> Santa Cruz Island fox	G1T1S1		FPE		
+ <i>Urocyon littoralis catalinae</i> Santa Catalina Island fox	G1T1S1		FPE		
+ <i>Vulpes macrotis mutica</i> San Joaquin kit fox	G4T2T3S2S3	ST	FE		
+ <i>Vulpes vulpes necator</i> Sierra Nevada red fox	G5T3S1	ST	(FSC)		FS: Sensitive
<b>MUSTELIDAE (weasels and relatives)</b>					
+ <i>Enhydra lutris nereis</i> Southern sea otter	G4T2S2		FT	EN/A1ace (full species)	DFG: Fully protected
+ <i>Gulo gulo</i> California wolverine	G4S2	ST	(FSC)	VU/A2c	DFG: Fully protected FS: Sensitive (ssp. <i>Luteus</i> )
<i>Lontra canadensis sonorae</i> Southwestern river otter	G5T1S1				DFG: CSC BLM: Sensitive
+ <i>Martes americana</i> American (=pine) marten	G5S3S4		(FSC)		FS: Sensitive
<i>Martes americana humboldtensis</i> Humboldt marten	G5T2T3S2S3				DFG: CSC FS: Sensitive (full species)
+ <i>Martes pennanti pacifica</i> Pacific fisher	G5T3T4QS2S3		(FSC)		DFG: CSC (full species) FS: Sensitive BLM: Sensitive
+ <i>Taxidea taxus</i> American badger	G5S4				
<b>MEPHITIDAE (skunks)</b>					
<i>Spilogale gracilis amphiala</i> Channel Islands spotted skunk	G5T3S3				DFG: CSC
<b>FELIDAE (cats and relatives)</b>					
<i>Puma concolor browni</i> Yuma mountain lion	G5T1T2QS1				DFG: CSC

<sup>33</sup> State listing includes all subspecies on all islands.

	CNDBB <u>RANK</u>	<u>CESA</u>	<u>ESA</u>	<u>IUCN</u>	<u>OTHER</u>
<b>OTARIIDAE (sea lions and fur seals)</b>					
<i>Arctocephalus townsendi</i> Guadalupe fur seal	G1S1	ST	FT	VU/D2	DFG: Fully protected
+ <i>Callorhinus ursinus</i> Northern fur seal	G3S1			VU/A1b	
+ <i>Eumetopias jubatus</i> (rookery) Northern (Steller) sea lion	G3S2		FT	EN/A1b	
<b>BOVIDAE (sheep and relatives)</b>					
+ <i>Ovis canadensis californiana</i> California (=Sierra) bighorn sheep	G4T1S1	SE	FE	LRcd	FS: Sensitive DFG: Fully protected
+ <i>Ovis canadensis nelsoni</i> DPS <sup>34</sup> Peninsular bighorn sheep	G4T3S1	ST	FE	EN/C1+2a	DFG: Fully protected
+ <i>Ovis canadensis nelsoni</i> Nelson's (=Desert) bighorn sheep	G4T4S3			LRcd	BLM: Sensitive

<sup>34</sup> The subspecies *O. c. cremnobates* has been synonymized the *O. c. nelsoni*. Peninsular bighorn sheep are now considered to be a Distinct Population Segment.

## **APPENDIX 1**

## CNDDB RANKS

CNDDB ranks are shorthand formulas that provide information on the rarity of a species or subspecies, both throughout its global range and its range within the State. We use the best information available to assign these ranks and they are regularly updated as new information becomes available.

**GLOBAL RANKS:** Worldwide status of a *full species*: G1 to G5

G1 = Extremely endangered: <6 viable occurrences (EO's) or <1,000 individuals, or < 2,000 acres of occupied habitat

G2 = Endangered: about 6-20 EO's or 1,000 - 3,000 individuals, or 2,000 to 10,000 acres of occupied habitat

G3 = Restricted range, rare: about 21-100 EO's, or 3,000 – 10,000 individuals, or 10,000 – 50,000 acres of occupied habitat

G4 = Apparently secure; some factors exist to cause some concern such as narrow habitat or continuing threats

G5 = Demonstrably secure; commonly found throughout its historic range

**STATE RANKS:** Statewide status of a *full species or a subspecies*: S1 to S5

Same general definitions as global ranks, but just for the range of the taxa within California.

**T-RANKS:** Status of a *subspecies* throughout its range: T1 to T5

A subspecies is given a T-rank. This is attached to the G-rank for the full species. The S-rank, in this case, will refer to the status of the subspecies within California. The T-rank has the same general definitions as the global ranks.

EXAMPLES:

Island Fox (*Urocyon littoralis*) – **G1S1**

**G1** – *Urocyon littoralis* is extremely endangered throughout its worldwide range

**S1** – It is a California endemic, therefore its range within the state is the same as its worldwide range.

Yuma clapper rail (*Rallus longirostris yumanensis*) – **G5T3S1**

**G5** – *Rallus longirostris* is common in North American coastal salt marshes and the range extends down into South America.

**T3** – *R. l. yumanensis* is rare and has a restricted range within Mexico, Arizona, and California

**S1** – This subspecies is extremely endangered within California

Santa Cruz long-toed salamander (*Ambystoma macrodactylum croceum*) – **G5T1S1**

**G5** – *Ambystoma macrodactylum* is found throughout the Pacific northwest.

**T1** – The subspecies *A. m. croceum* is found only in California and is extremely endangered throughout its range.

**S1** – This subspecies is extremely endangered within California

OTHER NOTATIONS: applicable to G-ranks, S-ranks, and T-ranks

G1G3 = proper rank is most likely within this range of ranks

G2? = proper rank is probably G2

G? = we don't have enough information to rank the species

GH = all sites are historical; this species may be extinct, but further field work is needed

GX = species is extinct (SX = species is extirpated from California)

GXC = species is extinct in the wild, but it exists in cultivation

G2Q = species is endangered but there is some taxonomic question about the species